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U. S. DEPARTMENT OF AGRICULTURE

OFFICE OF EXPERIMENT STATIONS

A. W. HARRIS, DIRECTOR

BULLETIN No. 13

ORGANIZATION LISTS

OF THE

AGRICULTURAL EXPERIMENT STATIONS

AND

AGRICULTURAL SCHOOLS AND COLLEGES

IN THE

UNITED STATES

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

APRIL, 1893

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WASHINGTON

GOVERNMENT PRINTING OFFICE

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LETTER OF TRANSMITTAL.

U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF EXPERIMENT STATIONS,
Washington, D. C., March 7, 1893.

SIR: I have the honor to transmit herewith, for publication, Bulletin No. 13 of this Office.

Respectfully,

A. W. HARRIS,
Director.

Hon. J. STERLING MORTON,
Secretary of Agriculture.

LIST OF ABBREVIATIONS.

Agr., Agriculture, Agriculturist, Agricultural.
Anal., Analytical.
Arbor., Arboriculture, Arboriculturist.
Assoc., Associate.
Asst., Assistant.
Bact., Bacteriology, Bacteriologist.
Biol., Biology, Biologist, Biological.
Bot., Botany, Botanist, Botanical.
Chem., Chemist, Chemistry, Chemical.
Chair., Chairman.
Dept., Department.
Dir., Director.
Elect., Electrical, Electricity.
Engin., Engineer, Engineering.
Ent., Entomology, Entomologist.
Expt., Experiment.
Geol., Geology, Geologist, Geological.
Gov., Governor, Governing.
Gym., Gymnasium.
Hort., Horticulture, Horticulturist.
Instr., Instructor.
Irrig., Irrigation.
Jan., Janitor.
Lab., Laboratory.
Lect., Lecture, Lecturer.
Lib., Librarian.
Math., Mathematics.
Mech., Mechanics, Mechanical.
Met., Meteorology, Meteorologist.
Min., Mineralogy, Mineralogist.
Myc., Mycologist.
P. g., Post graduate.
Physiol., Physiology, Physiological, Physiologist.
Polit., Political.
Prep., Preparatory.
Pres., President.
Prin., Principal.
Prof., Professor.
Sec., Secretary.
Sta., Station.
Sten., Stenographer, Stenography.
Supt., Superintendent.
Treas., Treasurer.
Univ., University.
V. Dir., Vice Director.
Vet., Veterinary, Veterinarian.
Vit., Viticulture, Viticulturist.
Zoöl., Zoölogy, Zoölogist.

LIST OF EXPERIMENT STATIONS IN THE UNITED STATES, WITH GOVERNING BOARDS AND STATION STAFFS.

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H. T. French, M. S., *Agr.*
F. L. Washburn, B. A., *Ent.*
George Coote, *Hort.*
Moses Craig, M. S., *Bot.*
Dumont Lotz, M. S., A. C., *Chem.*

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Department of the Pennsylvania State College.

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H. J. Waters, B. S. A., *Agr.*
William C. Patterson, *Supt. Farm.*
Julia C. Gray, *Clerk and Sten.*
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W. S. Sweetser, B. S., *Asst. Chem.*
J. A. Fries, *Asst. Chem.*
J. W. Fields, B. S., *Asst. Chem.*
E. J. Haley, M. A., *Asst. Chem.*
George Baldwin, *Gardener.*

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Rhode Island Agricultural Experiment Station, *Kingston.*

Department of Rhode Island College of Agriculture and Mechanic Arts.

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F. S. Shiver, PH. G., *Asst. Chem.*
R. N. Brackett, PH. D., *Asst. Chem.*
J. F. C. Du Pre, *Asst. Hort.*
J. S. Pickett, *Foreman Farm.*

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South Dakota Agricultural Experiment Station, *Brookings.*

Department of South Dakota Agricultural College.

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E. T. Sheldon (*Pres.*), *St. Lawrence;* C. H. Collins, *Brookings;* L. K. Larson, *Dell Rapids;* J. G. Carter, *Ipswich;* John Geise, *Watertown;* Lewis McLouth (*Sec.*), *Brookings;* Jos. Freudenfeld (*Treas.*), *Plankinton.*

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* Telegraph, express, and freight address, *Calhoun Station.*

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L. C. Corbett, B. S., *Hort.*
Jno. C. Whitten, *Asst. Hort.*
A. H. Wheaton, *Dairyman.*
Jas. H. Shepard, B. S., *Chem.*
C. G. Hopkins, B. S., *Asst. Chem.*
T. A. Williams, M. A., *Bot. and Ent.*
John M. Parkinson, *Lib.*
Ed. F. Hewit, *Sec. and Accountant.*

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Tennessee Agricultural Experiment Station, *Knoxville.*

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F. Lawson-Scribner, B. S., *Dir. and Bot.*
Chas. F. Vanderford, *Asst. Dir.*
Chas. W. Dabney, jr., PH. D., *Chem.*
R. L. Watts, B. AGR., *Hort.*
J. B. McBryde, B. A., C. E., *Asst. Chem.*
C. E. Chambliss, *Clerk and Lib.*
T. H. Kearney, *Asst. Bot.*

TEXAS.

Texas Agricultural Experiment Station, *College Station.*

Department of the State Agricultural and Mechanical College of Texas.

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STATION STAFF.

L. S. Ross, *President of the College.*

George W. Curtis, M. S. A., *Dir. and Agr.*
H. H. Harrington, M. Sc., *Chem.*
M. Francis, D. V. M., *Vet.*
R. H. Price, B. S., *Hort.*
D. Adriance, M. S., *Met. and Assoc. Chem.*
J. W. Carson, *Asst. to Dir.*
J. M. Carson, *Asst. Agr.*
P. S. Pilson, *Asst. Chem.*

UTAH.

Agricultural Experiment Station of Utah, *Logan.*

Department of the Agricultural College of Utah.

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S. S. Twombly, B. S., D. V. S., *Consulting Vet.*
A. A. Mills, B. S., *Farm Supt.*
F. W. Brewer, M. D., *Biol.*
S. Fortier, C. E., *Irrig. Engin.*
James Dryden, *Clerk and Sten.*
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R. J. Davidson, M. A., *Chem.*
E. P. Niles, D. V. M., *Vet.*
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J. P. Hendricks, *Agr.*
C. E. Munn, *Vet.*
G. H. Watt, *Chem*
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ing, *Spencer;* Edward A. Bennett, *Huntington;* Wirt A. French, *Princeton;* M. J. Kester, *Union;* J. F. Brown, *Charleston;* Thomas J. Farnsworth, *Buckhannon;* Joseph Moreland, *Morgantown;* W. W. Brown, *Kabletown.*

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F. Wm. Rane, M. S., *Hort. and Microscopist.*
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F. H. King, *Physicist.*
E. S. Goff, *Hort.*
J. A. Craig, *B. S. A., Animal Industry.*
F. W. Woll, M. S., *Asst. Chem.*
J. W. Decker, B. AGR., *Dairyman.*
Leslie H. Adams, *Farm Supt.*

Winona Merrick, *Clerk and Sten.*

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B. C. Buffum, B. S., *Hort.*
J. D. Conley, M. A., PH. D., *Geol.*
Aven Nelson, M. S., *Bot.*
F. J. Niswander, B. S., *Ent., Asst. Agr., and Supt. Farm.*
E. E. Slosson, M. S., *Chem.*
Jacob S. Meyer, *Supt. Substa., Lander.*
John D. Parker, *Supt. Substa., Saratoga.*
James A. Becker, *Supt. Substa., Sheridan.*
Thos. A. Dunn, *Supt. Substa., Sundance.*
Martin R. Johnston, *Supt. Substa., Wheatland.*

Grace R. Hebard, B. S., M. A., *Sec.*

Table showing experiment station officers

State.	Location.	Agriculturists.	Biologists.	Botanists.	Chemists.
Alabama	Auburn	A. J. Bondurant. J. Clayton	A. J. Bondurant.	P. H. Mell G. S. Clark	N. T. Lupton J. T. Anderson. L. W. Wilkinson. F. A. Lupton.
Arizona	Tucson			J. W. Toumey	C. B. Collingwood J. A. Heberly
Arkansas	Fayetteville	R. L. Bennett C. L. Newman G. B. Irby.			G. L. Teller F. W. Killen.
California	Berkeley	E. J. Wickson M. E. Jaffa		E. L. Greene	E. W. Hilgard R. H. Loughbridge G. E. Colby.
Colorado	Fort Collins	W. J. Quick F. L. Watrous	C. F. Baker	C. S. Crandall	D. O'Brine C. Ryan
Connecticut	New Haven			W. C. Sturgis	E. H. Jenkins. A. L. Winton, jr. T. B. Osborne. A. W. Ogden. H. M. Smith.
	Storrs	C. S. Phelps S. H. Buell.			C. D. Woods.
Delaware	Newark			F. D. Chester	C. L. Penny
Florida	Lake City			P. H. Rolfs	A. A. Persons
Georgia	Experiment	J. M. Kimbrough			H. C. White R. E. Hardee.
Idaho	Moscow	R. Milliken		C. W. McCurdy	C. W. McCurdy
Illinois	Champaign	G. E. Morrow F. D. Gardner		T. J. Burrill G. P. Clinton	E. H. Farrington E. K. Nelson
Indiana	LaFayette	W. C. Latta		J. S. Arthur K. Golden	H. A. Huston W. J. Jones. W. F. McBride.
Iowa	Ames	D. A. Kent		L. H. Pammel F. C. Stewart	G. E. Patrick E. N. Eaton
Kansas	Manhattan	C. C. Georgeson. F. C. Burtis		A. S. Hitchcock. M. A. Carleton	G. H. Failyer J. T. Willard
Kentucky	Lexington			H. Garman J. S. Terrill	A. M. Peter H. E. Curtis
Louisiana	Audubon Park, New Orleans.				J. T. Crowley.
	Baton Rouge			A. T. Prescott	B. B. Ross R. E. Blouin.
	Calhoun				M. Bird.
Maine	Orono	W. Balentine		F. L. Harvey F. P. Briggs	J. M. Bartlett L. H. Merrill
Maryland	College Park	R. H. Miller			H. J. Patterson
Massachusetts	Amherst (State)				C. A. Goessmann J. B. Lindsey. C. S. Crocker. H. D. Haskins. C. H. Jones. C. H. Johnson.
Massachusetts	Amherst (Hatch)	W. P. Brooks H. M. Thomson			
Michigan	Agricultural College.	P. M. Harwood E. A. Burnett P. G. Holden F. B. Mumford	G. C. Davis	C. F. Wheeler	R. C. Kedzie W. L. Rossman H. E. Harrison
Minnesota	St. Anthony Park.			O. Lugger	H. Snyder
Mississippi	Agricultural College.	E. R. Lloyd			W. L. Hutchinson L. G. Patterson

engaged in principal lines of work.

Entomologists.	Horticulturists.	Meteorologists.	Veterinarians.	Dairymen.	Miscellaneous.
.....	.....	P. H. Mell	C. A. Cary.		
J. W. Toumey .	L. E. Benton ...	C. B. Collingwood.	.....	.....	E. M. Boggs (*Irrig. Engin.*).
.....	M. Walker.				
.....	J. T. Stinson ...	.....	R. R. Dinwiddie.		
C. W. Woodworth.	.....	.....	.....	.....	E. W. Hilgard (*Geol.*).
.....	.....	.....	.....	.....	R. H. Loughridge (*Geol.*).
C. P. Gillette...	C. S. Crandall ..	L. G. Carpenter	.....	.....	L. G. Carpenter (*Irrig. Engin.*).
C. F. Baker	.....	R. E. Trimble ..	.....	.....	J. D. Stannard (*Irrig. Engin.*).
M. H. Beckwith	M. H. Beckwith	W. H. Bishop.			
P. H. Rolfs.....	J. N. Whitner..	.....	A. W. Bitting.		
.....	.....	R. E. Hardee...	.....	H. J. Wing.	
R. Milliken	R. Milliken.				
S. A. Forbes ...	T. J. Burrill....	.....	D. McIntosh.		
.....	G. W. McCluer.				
.....	J. Troop	W. F. McBride	W. L. Williams		
H. Osborn.....	J. L. Budd.....	.....	M. Stalker.		
H. A. Gossard.	N. E. Hansen..	.....	W. B. Niles.		
E. A. Popenoe .	E. A. Popenoe..	.....	N. S. Mayo.		
F. A. Marlatt ..	S. C. Mason.				
H. Garman	C. W. Mathews.	.....	S. E. Bennett.		
J. S. Terrill					
H. A. Morgan..	H. A. Morgan..	.....	W. H. Dalrymple.		
F. L. Harvey...	W. M. Munson.	M. C. Fernald ..	F. L. Russell.		
F. P. Briggs ...	H. P. Gould.				
.....	J. S. Robinson.				
C. H. Fernald ..	S. T. Maynard .	C. D. Warner.			
.....	W. H. Shepardson.				
	M. A. Carpenter				
.....	L. R. Taft.....	.....	E. A. A. Grange		
.....	H. P. Gladden.				
.....	R. J. Coryell.				
O. Lugger.....	S. B. Green	.....	C. Graham	T. L. Haecker.	
H. E. Weed	A. B. McKay ..	H. E. Weed	T. Butler.		

Table showing experiment station officers engaged

State.	Location.	Agriculturists.	Biologists.	Botanists.	Chemists.
Missouri	Columbia	E. D. Porter			P. Schweitzer C. P. Fox.
Nebraska	Lincoln	C. L. Ingersoll		C. E. Bessey	H. H. Nicholson R. Lloyd. T. L. Lyon.
Nevada	Reno	R. H. McDowell		F. H. Hillman	N. E. Wilson
NewHampshire	Durham		H. H. Lamson		F. W. Morse C. L. Parsons. E. P. Stone.
New Jersey	New Brunswick(State)				E. B. Voorhees. L. A. Voorhees. J. P. Street.
	New Brunswick(College)		J. Nelson	B. D. Halsted	
New Mexico	Las Cruces	A. E. Blount	C. H. T. Townsend.		E. O. Wooton A. Goss.
New York	Geneva	G. W. Churchill			L. L. Van Slyke. C. G. Jenter. A. L. Knisely. W. B. Cady. B. L. Murray. A. D. Cook. J. T. Sheedy.
	Ithaca	I. P. Roberts G. C. Watson		A. N. Prentiss G. F. Atkinson	G. C. Caldwell G. W. Cavanaugh
North Carolina	Raleigh	F. E. Emery		G. McCarthy	H. B. Battle B. W. Kilgore F. B. Carpenter. J. S. Meng. R. E. Noble.
North Dakota	Fargo	W. M. Hays		H. L. Bolley	E. F. Ladd W. H. Whalen
Ohio	Wooster	J. F. Hickman			F. J. Falkenbach
Oklahoma	Stillwater	A. C. Magruder			G. L. Holter
Oregon	Corvallis	H. T. French		M. Craig	D. Lotz
Pennsylvania	State College.	H. J. Waters W. H. Caldwell		W. A. Buckhout	W. Frear W. S. Sweetser. J. A. Fries. J. W. Fields. E. J. Haley.
Rhode Island	Kingston	C. O. Flagg J. D. Towar			H. J. Wheeler B. L. Hartwell.
South Carolina	Fort Hill	J. S. Newman			M. B. Hardin C. W. Sims. F. S. Shiver. R. N. Brackett.
South Dakota	Brookings			T. A. Williams	J. H. Shepard C. G. Hopkins.
Tennessee	Knoxville			F. Lamson-Scribner. T. H. Kearney	C. W. Dabney, jr J. B. McBryde.
Texas	College Station.	G. W. Curtis J. M. Carson			H. H. Harrington D. Adriance. P. S. Pilson.
Utah	Logan		F. W. Brewer		W. P. Cutter
Vermont	Burlington			L. R. Jones	J. L. Hills B. O. White.
Virginia	Blacksburg	D. O. Nourse	E. A. Smyth, jr	W. B. Alwood	R. J. Davidson T. L. Watson.
Washington	Pullman	J. P. Hendricks			G. H. Watt
West Virginia	Morgantown	D. D. Johnson			R. De Roode
Wisconsin	Madison				S. M. Babcock F. W. Woll.
Wyoming	Laramie	F. J. Niswander		A. Nelson	E. E. Slosson

in principal lines of work—Continued.

Entomologists.	Horticulturists.	Meteorologists.	Veterinarians.	Dairymen.	Miscellaneous.
.....	C. A. Keffer.				
L. Bruner.....	F. W. Taylor ..	.....	F. S. Billings..	.....	D. B. Brace (*Physicist.*) H. N. Allen (*Physicist.*)
F. H. Hillman..	R. H. McDowell				
C. M. Weed	.....	C. H. Pettee ..	.....	A. H. Wood.	
J. B. Smith	B. D. Halsted.				
C. H. T. Townsend.	A. E. Blount.				
.....	S. A. Beach.				
.....	C. E. Hunn.				
J. H. Comstock.	L. H. Bailey....	.....	J. Law.		
M. V. Slingerland	E. G. Lodeman.				
G. McCarthy ..	W. F. Massey..	C. F. Von Hermann.			
.....	A. Rhodes	R. Nunn.			
.....	H. W. McArdle .	.....	T. D. Hinebauch.	.....	C. B. Waldron (*Arbor.*)
.....	.....	.....	.....	.....	E. S. Keene (*Irrig. Engin.*)
F. M. Webster .	W. J. Green. E. C. Green.				
.....	A. C. Magruder	.....	.....	.....	G. L. Holter (*Physicist.*)
F. L. Washburn	G. Coote.				
.....	G. C. Butz.				
.....	L. F. Kinney...	.....	.....	.....	S. Cushman (*Apiarist.*)
.....	J. F. C. Du Pre.				
.....	J. C. Whitten..	.....	.....	A. H. Wheaton	
.....	R. L. Watts.				
.....	R. H. Price....	D. Adriance ...	M. Francis.		
E. S. Richman .	E. S. Richman.	.....	S. S. Twombly.		
G. H. Perkins..	.....	.....	F. A. Rich	T. E. Donahue.	
W. B. Alwood..	W. B. Alwood..	.....	E. P. Niles.		
C. V. Piper	E. R. Lake.....	.....	C. E. Munn.		
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F. J. Niswander	B. C. Buffum...	.....	.....	.....	J. D. Conley. (*Geol.*)

LIST OF AGRICULTURAL SCHOOLS AND COLLEGES IN THE UNITED STATES, WITH COURSES OF STUDY AND BOARDS OF INSTRUCTION.

ALABAMA.

Agricultural and Mechanical College of Alabama, *Auburn.*

COURSES OF STUDY.

The courses of study are five. Three of these require four years each for completion and lead to the degree of B. S.: Course in chemistry and agriculture, course in mechanics and engineering, and general course. The two remaining courses require two years each and lead to a certificate: Two years' course in agriculture and two years' course in mechanic arts.

BOARD OF INSTRUCTION.

Wm. LeRoy Broun, M. A., LL.D., *Pres.; Physics and Astronomy.*
O. D. Smith, M. A., *Math.*
P. H. Mell, jr., M. E.; Ph. D., *Natural History and Geology.*
J. H. Lane, C. E., M. A., *Civil Engin. and Drawing.*
C. C. Thach, B. E., *English and Polit. Economy.*
N. T. Lupton, M. A., M. D., LL. D., *General and Agr. Chem.; State Chem.*
J. H. Wills, Lieut. 21st. Infantry, U. S. A., *Military Science.*
J. J. Wilmore, M. E., *Dir. Lab.; Instr. Mech. Arts.*
C. H. Ross, Ph. D. (*Adjunct*), *Modern Languages and English.*
G. Petrie, M. A., Ph. D., *History and Latin.*
A. F. McKissick, M. A., *Elect. Engin.*
B. H. Crenshaw, M. S., *Instr. Mech. Arts.*
C. B. Glenn, M. S., *Asst. Physics; Lib.*
S. J. Buckalew, M. S., *Asst. Instr. Mech. Arts.*
C. A. Brown, B. S., *Asst. in Drawing.*
W. F. Feagin, B. S,, *Asst. in Agr.*
R. F. Hare, B. S., *Asst. in Chem.*
L. P. Heyman, B. S., *Asst. in Math.*
F. M. Mosely, B. S., *Asst. in Elect. Engin.*
L. W Payne, B. S., *Asst. in English.*
W. E. Richards, B. S., *Asst. in Biol.*
E. B. Smith, B. S., *Asst. in Math. and English.*
R. J. Trammell, B. S., *Asst. in Mech. Arts.*

ARIZONA.

College of Agriculture of the University of Arizona, *Tucson.*

COURSE OF STUDY.

The course of study in agriculture requires four years for completion and leads to the degree of B. S.

BOARD OF INSTRUCTION.

M. P. Freeman, *Chancellor.*
F. A. Gulley, M. S., *Agr.*
C. B. Collingwood, M. S., *Chem.*
Edward M. Boggs, C. E., *Math. and Irrig. Engin.*
T. B. Comstock, D. Sc., *Mining and Metallurgy.*
J. W. Tourney, B. S., *Bot. and Ent.*
L. E. Benton, *Hort.*
H. J. Hall, *Prin. Preparatory Dept.*

ARKANSAS.

Arkansas Industrial University, *Fayetteville.*

COURSES OF STUDY.

The University offers twelve courses in the departments at Fayetteville: Three in engineering, leading to the degrees of B. M. E., B. C. E., and B. E. E.; four in science, eading to the degree of B. S., with one of the following subjects as a specialty: Chemstry, botany and zoölogy, horticulture and entomology, and geology; one in liberal arts, the classical leading to the degree of B. A.; four short courses without degree, students in which at the end of the sophomore year may change to one leading to one of the above degrees, viz, farmers', manual training, normal, and medical preparatory courses. In addition to the above, the medical department and the law department, both at Little Rock, have courses of study leading to the degrees of M. D. and B. L., respectively.

BOARD OF INSTRUCTION.

E. H. Murfee, M. A., LL. D., *Pres.; Psychology and Ethics.*
A. E. Menke, D. Sc., *Agr., Chem., and Physics.*
Oliver C. Gray, M. A., LL. D., *Math., Logic, and Astronomy.*
J. F. McNeill, B. S., *Biol. and Geol.*
R. H. Willis, M. A., *English and Modern Languages.*
Chas. V. Kerr, Ph. M., M. E., *Mech. Arts and Engin.*
Chas. H. Levcrett, M. A., *Ancient Languages and Literature.*
Julius F. Howell, M. A., *History and Pedagogics.*
R. W. Dowdy, 1st Lieut. 17th Infantry, U. S. A., *Military Science and Tactics.*
G. C. P. Schoff, C. E. (*Adjunct*), *Civil Engin.*
W. B. Bentley, M. A. (*Adjunct*), *Chem. and Physics.*
Ella H. Carnall, Ph. M. (*Adjunct*), *English and Modern Languages.*
Geo. W. Droke, M. A. (*Adjunct*), *Math.*
Seth E. Meek, Ph. D. (*Adjunct*), *Biol. and Geol.; Curator Museum.*
Harold B. Smith, M. E. (*Adjunct*), *Elect. Engin.*
Jessie L. Cravens, B. L., *Instr. Elocution.*
J. B. Marcheselli, *Instr. Music.*
S. L. Grinstead, *Instr. Wood Work.*
Wm. M. Gilmore, *Instr. Foundry and Forging.*
Mack Martin, B. M. E., *Instr. Machine Shop.*
Mrs. A. M. Tyler, *Prin. Preparatory Dept.*
John C. Massie, jr., B. A., *1st Asst. in Preparatory Dept.*
Mary E. Washington, *Asst. in Preparatory Dept.*
Anna M. Waggener, B. L., *Asst. in Preparatory Dept.*
Naomi J. Williams, M. A., *Asst. in Preparatory Dept.*
Ida Pace, B. A., *Asst. in Preparatory Dept.*
Julia A. Garside, *Lib.*
Wm. F. Bates, *Foreman Farm.*
J. M. Moore, *Asst. Foreman Farm.*
V. H. Cawood, *Engin.*
C. H. Chesebro, *Jan.*

CALIFORNIA.

College of Agriculture of the University of California, *Berkeley.*

COURSE OF STUDY.

The course of study requires four years for completion and leads to the degree of B. S.

BOARD OF INSTRUCTION.

M. Kellogg, M. A., *Pres.; Latin Language and Literature.*
I. Stringham, PH. D., *Dean; Math.*
E. W. Hilgard, PH. D., LL. D., *Agr., Agr. Chem.*
E. J. Wickson, M. A. (*Assoc.*), *Agr., Hort. and Ent.*
R. H. Loughridge, PH. D., *Agr. Geol., and Agr. Chem.*
E. L. Greene, PH. B., *Bot.*
Wm. B. Rising, M. A., M. E., PH. D., *Chem.*
E. O'Neill, PH. B., *Chem.*
J. LeConte, M. A., M. D., LL. D., *Geol. and Natural History.*
A. C. Lawson, M. A. PH. D. (*Assoc.*), *Mineralogy and Geology.*
C. W. Woodworth, M. S., *Ent.*
G. C. Edwards, PH. B. (*Assoc.*), *Math.*
M. W. Haskell, PH. D., *Math.*
F. Slate, B. S., *Physics.*
N. Whiting, PH. D., *Physics.*
H. Kower, C. E., *Asst. Instr. Drawing.*
F. Soulè, *Civil Engin. and Astronomy.*
B. Moses, PH. D., *History and Polit. Economy.*
C. M. Gayley, B. A., *English Language and Literature.*
C. B. Bradley, M. A. (*Assoc.*), *English Language and Literature.*
A. F. Lange, PH. D., *English Language and Literature.*
A. Putzker, M. A., *German.*
J. H. Senger, PH. D., *German.*
F. V. Paget, B. L., B. S. (*Assoc.*), *French and Spanish.*
B. H. Randolph, 1st Lieut. 3d Artillery, U. S. A., *Military Science and Tactics.*
L. Paparelli, Licentiate Agr., *Instr. Vit. and Olive Culture.*
W. J. Sharwood, *Instr. Chem.*
M. A. Howe, PH. B., *Instr. Cryptogamic Bot.*
A. O. Leuschner, B. A., *Instr. Math.*
A. B. Pierce, M. A., *Instr. Math.*
W. E. Ritter, M. A., *Instr. Biol. Lab.*
F. G. Burgess, B. S., *Instr. Topographical and Free-Hand Drawing.*
W. D. Armes, PH. B., *Instr. English.*
S. D. Huntington, B. A., *Instr. French.*
H. I. Randall, B. S., *Instr. Civil Engin.*
J. Sutton, PH. B., *Recorder.*
M. E. Jaffa, PH. B., *Instr. Agr. Lab.*
Geo. E. Colby, PH. B., *Instr. Vit. Lab.*
E. R. Drew, B. S., *Instr. Physics.*
V. K. Chesnut, B. S., *Asst. in Chem.*
R. S. Norris, B. S., *Asst. in Chem.*
W. C. Blasdale, B. S., *Asst. in Chem.*
L. T. Thorpe, *Asst. in Physics.*
A. Incell, B. S., *Asst. in Physics.*
W. L. Jepson, PH. B., *Asst. in Bot.*
F. H. Payne, M. D., *Dir. Physical Culture.*
Mary B. Ritter, M. D., *Woman Physician in Dept. Physical Culture.*
W. E. Magee, *Instr. Physical Culture.*
C. Palache, B. S., *Fellow in Mineralogy.*
L. T. Heugstler, M. A., *Fellow in Math.*
J. C. Rowell, B. A., *Lib.*

COLORADO.

The State Agricultural College of Colorado, *Fort Collins.*

COURSES OF STUDY.

The courses of study are four, each requiring two years in addition to three years of preparatory work, and each leading to the degree of B. S.: The agricultural course, the mechanical course, the irrigation engineering course, and the ladies' course.

BOARD OF INSTRUCTION.

Alston Ellis, M. A., Ph. D., LL. D., *Pres.; Polit. Economy and Logic.*
J. W. Lawrence, B. S., *Mech. and Drawing.*
Maud Bell, *History, Languages, and Literature.*
D. O'Brine, M. E., D. Sc., M. D., *Chem. and Geol.*
L. G. Carpenter, M. S., *Physics and Irrig. Engin.*
C. S. Crandall, M. S., *Bot. and Hort.*
J. C. Dent, Capt. 20th Infantry, U. S. A., *Military Science and Tactics.*
C. P. Gillette, M. S., *Zoöl. and Ent.*
Walter J. Quick, B. S., *Agr.*
Grace Patton, B. S., *English and Sten.*
W. J. Myers, B. S., *Math.*
F. J. Annis, M. S., *Sec. Faculty.*
Celia M. Southworth, *Lib.*
Frank L. Watrous, *Agr.*
L. D. Crain, B. M. E., *Mech. and Drawing.*
J. D. Stannard, B. S., *Physics and Engin.*
Chas. F. Baker, B. S., *Zoöl and Ent.*

CONNECTICUT.

Sheffield Scientific School of Yale University, *New Haven.*

COURSES OF STUDY.

Courses of instruction occupying three years and leading to the degree of Ph. B. are arranged to suit the requirements of students. The first year's work is the same for all; for the last two years the instruction is chiefly arranged in special courses. Those most distinctly marked out are the following: In chemistry, in civil engineering, in mechanical engineering, in agriculture, in natural history, in biology preparatory to medical studies, in studies preparatory to mining and metallurgy, and in select studies preparatory to other higher studies. Under certain conditions the degrees of civil engineer and mechanical (or dynamical) engineer are conferred on bachelors of philosophy who have taken the first degree in engineering study and who pursue a higher course under the direction of the governing board of the school for at least two years.

BOARD OF INSTRUCTION.

Timothy Dwight, D. D., LL. D., *Pres.*
G. J. Brush, LL. D., *Mineralogy.*
W. D. Whitney, Ph. D., LL. D., *Comparative Philology.*
S. W. Johnson, M. A., *Theoretical and Agr. Chem.*
W. H. Brewer, Ph. D., *Agr.*
J. E. Clark, M. A., *Math.*
D. C. Eaton, M. A., *Bot.*
C. B. Richards, M. A., *Mech. Engin.*
T. R. Lounsbury, M. A., *English.*
A. E. Verrill, M. A., *Zoöl.; Instr. Geol.*
S. I. Smith, M. A., *Comparative Anatomy.*
W. G. Mixter, M. A., *Chem.*
A. J. Dubois, C. E., Ph. D., *Civil Engin.*
C. S. Hastings, Ph. D., *Physics.*
Henry W. Farnam, M. A., R. P. D., *Polit. Economy.*
R. H. Chittenden, *Physiol. Chem.*
A. S. Wheeler, M. A., *Instr. German.*
M. Bailey, M. A., *Instr. Elocution.*
J. H. Niemeyer, M. A., *Drawing.*
Louis Von Elbe, *Instr. French.*
T. W. Mather, D. E., *Instr. Mech. Engin.*
Capt. James S. Pettit, U. S. A., *Military Science.*
S. L. Penfield, Ph. B., *Mineralogy.*
H. L. Wells, Ph. B., *Anal. Chem.*
S. E. Barney, C. E., *Instr. Math. and Civil Engin.*
W. J. Comstock, Ph. B., *Instr. Organic Chem.*
F. E. Beach, Ph. B., *Asst. in Physics.*
Robert N. Corwin, B. A., *Instr. German.*
L. V. Pirsson, Ph. B., *Instr. Lithology.*
A. B. Adams, Ph. B., *Asst. Chem.*
A. G. Cameron, Ph. D., *French.*
A. J. Wakeman, Ph. B., *Instr. Anal. Chem.*
P. F. Smith, Ph. D., *Instr. Math.*
W. A. Setchel, Ph. D., *Instr. Biol.*
E. H. Lockwood, Ph. B., *Instr. Drawing and Mech.*
A. C. Alexander, Ph. B., *Asst. in Physics.*

BOARD OF INSTRUCTION—continued.

Langdon Frothingham, D. V. M., *Asst. in Vet. Science and Bact.*
H. A. Smith, B. A., *Instr. English.*
W. I. Lowe, *Instr. History.*
G. P. Starkweather, PH. B., *Asst. in Drawing.*
F. R. Rich, PH. B., *Asst. German.*
J. C. Tracy, C. E., *Asst. in Civil Engin.*
J. Bowden, B. A., *Asst. in Math.*
W. R. Coe, PH. B., *Lab. Asst. in Biol.*
G. F. Campbell, PH. B., *Lab. Asst. in Chem.*
P. T. Walden. PH. B., *Lab. Asst. in Anal. Chem.*
Chas. M. Williams, PH. B., *Asst. in Physiol. Chem. Lab.*
L. B. Abendd, B. A., *Asst. in Physiol. Chem. Lab.*
Chas. J. Bartlett, B. A., *Asst. in Physiol. Chem. Lab.*

Storrs Agricultural School, *Mansfield.*

COURSE OF STUDY.

The course of study requires three years for completion and leads to no degree.

BOARD OF INSTRUCTION.

B. F. Koons, PH. D., *Prin.*
A. B. Peebles, B. S., *Chem. and Math.*
C. S. Phelps, B. S., *Agr.*
H. W. Conn, PH. D., *Lect. Bact.*
C. D. Woods, *Lect. Chemistry of Foods.*
L. P. Chamberlain, *Farm Supt.*
Miss Josephine Nettleton, *Instr. English and Math.*
Mrs. C. E. Hilliard, *Matron.*

DELAWARE.

Delaware College, *Newark.*

COURSES OF STUDY.

The courses of study are seven, and require four years each for completion: The classical and the Latin scientific courses, each leading to the degree of B. A.; the course in modern languages and science, leading to the degree of B. S.; the courses in engineering, leading to the degrees of C. E., M. E., and E. E.; and the agricultural course, leading to the degree of B. AGR.

BOARD OF INSTRUCTION.

A. N. Raub, PH. D., *Pres.; English, Mental, Moral, and Polit. Science.*
T. R. Wolf, PH. D., *Chem., Mineralogy, and Sanitary Science.*
F. D. Chester, M. S., *Bot. and Geol.*
G. A. Harter, PH. D., *Math. and Physics.*
C. S. Conwell, M. A., *Ancient and Modern Languages.*
M. H. Beckwith, *Hort. and Ent.*
C. L. Penny, M. A., *German.*
F. A. Weihe, M. E., *Mech. and Elect. Engin.*
F. H. Robinson, C. E., *Civil Engin.*
W. H. Bishop, B. S., *Agr.*
H. P. Eves, D. V. S., *Vet. Science.*
Lieut. E. C. Brooks, *Military Science and Tactics.*

State College for Colored Students, *Dover.*

COURSES OF STUDY.

There are five courses of study: Classics, science, agriculture, engineering, and chemistry.

BOARD OF INSTRUCTION.

Wesley Webb, M. S., *Pres.* M. M. Beamer, *Asst.*
S. W. Conwell, B. A., *Asst.*

FLORIDA.

Florida State Agricultural and Mechanical College, *Lake City.*

COURSES OF STUDY.

Besides a preparatory department, there are four collegiate courses of study, each requiring four years for completion: The scientific and classical course, leading to the degree of B. A.; the agricultural course, leading to the degree of B. S.; the mechanical course, leading to the degree of M. E.; and the civil engineering course, leading to the degree of C. E.

BOARD OF INSTRUCTION.

W. F. Yocum, M. A., *Pres.; Mental and Moral Philosophy.*
J. J. Earle, B. A., *Physics and Chem.*
H. P. Baya, *Math.*
W. W. Seals, M. A., *English and Literature.*
J. M. Stuart, B. A., *Latin and History.*
C. C. Ballou, Lieut. 16th Infantry, U. S. A., *Military Science and Tactics, Civil Engin.*
Jas. P. De Pass, *Agr.*
J. N. Whitner, M. A., *Pomology and Hort.*
P. H. Rolfs, M. S., *Natural Science, Ent. and Bot.*
A. A. Persons, B. S., *Agr. Chem.*
A. W. Bitting, B. S., *Vet. Science.*
H. C. Powers, *Manual Training and Drawing.*
E. J. Bending, *Asst. in Wood Shops.*
J. C. Martin, jr., M. A., *In Charge Preparatory Dept.*
J. F. Appell, M. D., *Physician.*

Florida State Normal School, *Tallahassee.*

COURSES OF STUDY.

The courses of study are four: Preparatory, normal, manual training, and agricultural.

BOARD OF INSTRUCTION.

T. DeS. Tucker, M. A., *Pres.*
T. V. Gibbs, *Math.*
F. C. Johnson, *Manual Training, Chem.*
Alexander Cuppage, *Agr.*
Ida A. Gibbs, M. A., *Prin. Preparatory Dept.*

GEORGIA.

Georgia State College of Agriculture and Mechanic Arts, *Athens.*

COURSES OF STUDY.

There are two courses of study, requiring four years each for completion and leading to the degrees of B. S. and B. E.; one three years' course leading to the degree of B. Agr.; post-graduate courses of one year each leading to degrees of M. S., C. E., and M. Agr.; special courses in chemistry, mining and metallurgy, in agriculture, in electrical engineering, and in building and architecture, in which certificates of attainment are given.

BOARD OF INSTRUCTION.

H. C. White, PH. D., *Pres.; Chem.*
L. H. Charbonnier, M. A., PH. D., *Physics.*
C. P. Willcox, M. A., LL. D., *Modern Languages.*
C. Morris, M. A., *English.*
D. C. Barrow, jr., C. M. E., *Math.*
C. M. Strahan, C. M. E., *Engin.*
John P. Campbell, B. A., PH. D., *Biol.*
J. H. T. McPherson, PH. D., *History.*
J. B. Hunnicutt, B. A., *Agr.*
C. M. Snelling, B. S., *Instr. Math.; Commandant.*
C. H. Herty, PH. D., *Instr. Anal. Chem.*
Jesse Coates, B. E., *Instr. Physics.*
O. E. Sheffield, B. E., *Instr. Drawing.*

IDAHO.

College of Agriculture of the University of Idaho, *Moscow.*

COURSE OF STUDY.

The course of study in agriculture requires four years for completion.

BOARD OF INSTRUCTION.

F. B. Gault, M. S., *Pres.*
John E. Ostrander, C. E., M. A., *Civil Engin. and Mech. Arts.*
Robert Milliken, *Agr. and Hort.*
Chas. W. McCurdy, D. Sc., *Chem. and Hort.*
Miss Annette Bowman, *Instr. Industrial Drawing and History.*
Miss N. G. Brown, *Instr. English Branches.*

ILLINOIS.

College of Agriculture of the University of Illinois, *Champaign.*

COURSES OF STUDY.

The courses of study are three: The agricultural course, requiring four years for completion and leading to the degree of B. S.; the junior course in agriculture, requiring two years for completion, and leading to no degree; and a special course for farmers beginning in January and continuing eleven weeks.

BOARD OF INSTRUCTION.

T. J. Burrill, M. A., PH. D., *Acting Regent; Bot. and Hort.*
G. E. Morrow, M. A., *Dean; Agr.*
S. W. Shattuck, M. A., C. E., *Math.*
E. Snyder, M. A., *German.*
N. C. Ricker, M. Arch., *Architecture.*
J. D. Crawford, M. A., *History.*
I. O. Baker, C. E., *Civil Engin.*
S. A. Forbes, PH. D., *Zoöl. and Ent.*
J. H. Brownlee, M. A., *Rhetoric and Oratory.*
C. W. Rolfe, M. S., *Geol.*
D. McIntosh, V. S., *Vet. Science.*
A. N. Talbot, C. E., *Municipal Engin.*
A. W. Palmer, D. Sc., *Chem.*
F. F. Frederick, *Industrial Art.*
Capt. E. R. Hills, *Military Science.*
S. W. Parr, M. S., *Anal. Chem.*
M. R. Paradis, M. A., *French.*
W. J. Baldwin, B. S., *Mining Engin.*
C. W. Scribner, M. E., *Mech. Engin.*
D. K. Dodge, PH. D., *English Language and Literature.*
D. W. Shea, PH. D., *Physics.*
Wm. O. Krohn, PH. D., *Psychology.*
G. W. Parker, *Instr. Woodwork.*
R. Anderson, M. E., *Instr. Ironwork.*

INDIANA.

School of Agriculture, Horticulture, and Veterinary Science of Purdue University, *La Fayette.*

COURSE OF STUDY.

The course of study requires four years for completion and leads to the degree of B. S.

BOARD OF INSTRUCTION.

Jas. H. Smart, M. A., LL. D., *Pres.*
Wm. F. M. Goss, M. S., *Experimental Engin.*
Moses C. Stevens, M. A., *Higher Math.*
Oscar J. Craig, M. A., PH. D., *Polit. Economy and History.*
James Troop, M. S., *Hort. and Ent.*
Arthur L. Green, PH. C., *Dean School of Pharmacy.*
Henry A. Huston, M. A., A. C., *Agr. Chem.*
Mrs. Emma Mont. McRae, *Lady Prin.; English Literature.*
Joseph C. Arthur, D. Sc., *Vegetable Physiol. and Path.*
Alfred E. Phillips, C. E., M. A., *Civil Engin.*
Stanley Coulter, M. A., PH. D., *Biol.*
Anna von Holland, *Modern Languages.*
W. C. Latta, M. S., *Agr.*
Erastus Test, M. A., M. D., *Prin. Preparatory Dept.*
Winthrop E. Stone, M. A., PH. D., *Organic and Inorganic Chem.; Dir. Chem. Lab.*
M. J. Golden, *Practical Mech.*
Chas. S. Plumb, B. S., *Agr. Science.*
Walter L. Williams, V. S., *Vet. Science.*
John J. Flather, PH. B., M. M. E., *Mech. Engin.*
Frank A. Waterman, M. A., *Physics and Theory of Elect.*
Reginald S. Fessenden, *Elect. Engin.*
Percy H. Richardson, B. S., C. E., *Hydraulic and Sanitary Engin.*
Thos. G. Alford, M. A., *Math.*
Alfred M. Amadon, M. A., *Math.*
Wm. P. Turner, *Instr. Machine Work.*
David D. Johnson 1st Lieut. 5th Artillery, U. S. A., *Military Science and Tactics; Asst. in Math.*
Carolyn Gerrish, *Instr. Elocution and English.*
Abby Lytle, *Instr. Industrial Art.*
Geo. Spitzer, PH. G., *Instr. Pharmacy.*
James D. Hoffman, B. M. E., *Instr. Wood Shop.*
Julius Stuermer, PH. G., *Instr. Materia Medica.*
Walter Jones, PH. D., *Instr. Chem.*
Chas. D. Peterson, B. C. E., *Instr. Mech. Drawing.*
Glasgow A. Read, *Instr. Foundry and Forging.*
Stephen G. Wright, B. S., *Asst. in Biol.*
Richard A. Smart, B. M. E., *Asst. in Mech. Lab.*
Herbert N. McCoy, B. S., *Asst. in Chem.*
Wm. H. Test, B. S., *Asst. in Chem.*
Arthur L. Westcott, B. M. E., *Asst. in Wood Shop.*
Emil Reyer, PH. G., *Asst. in Pharmacy.*
Benj. M. Hook, *Asst. in Pharmacy.*
Mattie L. Furber, *Asst. Instr. Industrial Art.*
Thos. M. Gardner, B. M. E., *Asst. in Elect. Lab.*
M. D. Strout, *Asst. in Mech. Lab.*
Elizabeth Day Swan, *Lib.*

IOWA.

Iowa State College of Agriculture and Mechanic Arts, *Ames.*

COURSES OF STUDY.

The courses of study are eight: The course in sciences as related to the industries, leading to the degree of B. S.; the course in agriculture, leading to the degree of B. Agr.; the course for ladies, leading to the degree of B. L.; the course in mechanical engineering, leading to the degree of B. M. E.; the course in civil engineering, leading to the degree of B. C. E.; the course in electrical engineering, leading to the degree of B. E. E.; the course in mining engineering, leading to the degree of B. M. E.; and the course in veterinary science, leading to the degree of D. V. M. The last-

mentioned course requires three years for completion, each of the others, four years. There are also a two years' course and a ten weeks' course in agriculture and dairying.

BOARD OF INSTRUCTION.

W. M. Beardshear, M. A., LL. D., *Pres.; Psychology and Ethics.*
M. Stalker, M. S., V. S., *Vet. Science.*
J. L. Budd, M. H., *Hort.*
E. W. Stanton, M. S., *Math. and Economic Science.*
D. S. Fairchild, M.D., *Pathology, Histology, Therapeutics, and Comparative Anatomy.*
J. R. Lincoln, *Military Science and Tactics; Mining Engin.*
A. A. Bennett, M. S., *Chem.*
Herbert Osborn, M. S., *Zoöl. and Ent.*
W. S. Franklin, M. S., *Physics and Elect. Engin.*
A. C. Barrows, M. A., D. D., *English Literature and History.*
L. H. Pammel, B. AGR., *Bot.*
Mrs. Eliza Owens, *Domestic Economy.*
James Wilson, *Agr.*
G. E. Patrick, M. S., *Agr. Chem.*
A. Marston, C. E., *Civil Engin.*
Miss Celia Ford, B. L., *French and German.*
Miss Margaret Doolittle, B. A., *English, Latin, and Rhetoric.*
Miss Fannie F. Thomas, M. A., *Lib.; Elocution.*
D. A. Kent, B. S., *Agr.*
C. F. Curtiss, B. S. A., *Agr.*
G. W. Bissell, M. E., *Mech. Engin.*
W. B. Niles, D. V. M., *Vet. Science.*
H. C. Wallace, B. S. A., *Dairying.*
F. W. Harris, *Foreman and Instr. Shop Work.*
Joseph S. Chamberlain, B. S., *Asst. in Chem.*
Leo Thurlimann, B. S., *Asst. in Chem.*
Miss Minnie Roberts, B. L., *Asst. in Math.*
S. W. Beyer, B. S., *Asst. in Geol. and Zoöl.*
W. A. McClanahan, D. V. M., *Surgeon.*
Miss Marie Chambers, *Dir. of Music.*
Miss Jennie Westerman, *Instr. Piano and Organ.*

KANSAS.

Kansas State Agricultural College, *Manhattan.*

COURSES OF STUDY.

The regular course of study requires four years for completion and leads to the degree of B. S. Special and post graduate courses are also provided. The degree of M. S. is given upon post graduate study with satisfactory evidence of proficiency, after three years, in science and industrial arts.

BOARD OF INSTRUCTION.

Geo. T. Fairchild, M. A., *Pres.; Logic and Polit. Economy.*
G. H. Failyer, M. S., *Chem. and Mineralogy.*
E. A. Popenoe, M. A., *Hort. and Ent.*
D. E. Lantz, M. S., *Lib.; Math.*
J. D. Walters, M. S., *Industrial Art and Designing.*
I. D. Graham, B. S., *Sec.; Instr. Bookkeeping.*
O. E. Olin, *English Language and Literature.*
Mrs. Nellie S. Kedzie, M. S., *Household Economy and Hygiene.*
Mrs. E. E. Winchip, *Supt. Sewing.*
O. P. Hood, B. S., *Mech. and Engin.*
A. B. Brown, M. A., *Music.*
J. S. C. Thompson, *Supt. Printing.*
F. H. White, B. A., *History and Constitutional Law.*
C. C. Georgeson, M. S., *Agr.; Supt. Farm.*
E. B. Bolton, Capt. 23d Infantry, U. S. A., *Military Science and Tactics.*
E. R. Nichols, M. A., *Physics.*
N. S. Mayo, M. S., D. V. S., *Physiol. and Vet. Science.*
J. T. Willard, M. S., *Chem.*
A. S. Hitchcock, M. S., *Bot.*
S. C. Mason, B. S., *Hort.*
Miss Josie Harper, *Instr. Math.*
Miss Alice Rupp, *Instr. English.*
C. M. Breese, M. S., *Asst. in Chem.*
Julia R. Pearce, B. S., *Asst. Lib.*
Bessie B. Little, B. S., *Asst. in Sewing.*
Wm. Baxter, *Foreman Greenhouses.*
W. L. House, *Foreman Carpenter Shop.*
E. Harrold, *Foreman Iron Shop.*

KENTUCKY.

Agricultural and Mechanical College of Kentucky, *Lexington.*

COURSES OF STUDY.

The regular courses of study are six, requiring four years each for completion: The agricultural course, leading to the degree of B. S.; the scientific course, leading to the same degree; the classical course, leading to the degree of B. A.; the mechanical engineering course, leading to the degree of M. E.; the civil engineering course, leading to the degree of C. E.; and the normal course, leading to the degree of B. Ped. Certificates of proficiency are given to those who do not complete a course undertaken.

BOARD OF INSTRUCTION.

J. K. Patterson, PH. D., *Pres.; Metaphysics and Civil History.*
J. Shackleford, M. A., *V. Pres.; English Language and Literature.*
Robert Peter, M. D. (*Emeritus*), *Chem.*
J. G. White, M. A., *Math. and Astronomy.*
F. M. Helveti, M. A., *French and German Languages and Literature.*
J. H. Neville, M. A., *Latin and Greek Languages and Literature.*
J. H. Kastle, PH. D., *Chem.*
R. N. Roark, B. A., *Prin. Normal Dept.*
H. Garman, *Zoöl. and Ent.*
C. W. Mathews. B. S., *Agr., Hort. and Bot.*
J. P. Nelson, M. A., *Civil Engin. and Physics.*
M. L. Pence, M. S., *Civil Engin. and Physics.*
F. Paul Anderson, B. M. E., *Mech. Engin.*
C. D. Clay, First. Lieut., U. S. A., *Military Science.*
J. W. Pryor, M. D., *Anatomy and Physiol.*
W. K. Patterson, *Prin. Academy.*
J. L. Logan, B. A., *Asst. in Academy.*
J. W. Newman, B. S., *Asst. in Normal Dept.*
R. L. Blanton, M. LIT., *Greek and Latin.*
J. M. Davis, B. A., B. S., *Asst. in Academy.*
V. E. Muncey, B. S., *Asst. in Academy.*
J. H. Wells, B. M. E., *Asst. in Mech. Engin.*
J. S. Terrill, B. S., *Asst. in Bot. and Ent.*
Mrs. Lucy B. Blackburn, *Asst. in Academy.*
James Murray, *Practical Hort.*

State Normal School, *Frankfort.*

COURSES OF STUDY.

There are four courses of study: Normal course, agricultural course, mechanical course, and a course in domestic economy.

BOARD OF INSTRUCTION.

J. H. Jackson, M. A., *Prin.*
M. A. Davis, *Teacher.*
Ida Joyce Jackson, *Teacher.*
W. A. Creditt, M. A., *Teacher.*
C. C. Monroe, M. A., *Teacher.*

LOUISIANA.

Louisiana State University and Agricultural and Mechanical College, *Baton Rouge.*

COURSES OF STUDY.

The regular courses of study are three, each requiring four years for completion: The course in agriculture, the course in mechanics and civil engineering, and the literary course, the first two leading to the degree of B. S., the last to the degree of B. A. A preparatory department and a two years' commercial course are also provided.

BOARD OF INSTRUCTION.

J. W. Nicholson, M. A., *Pres.; Math.*
Chas. Chollet, B. A., *Ancient Languages.*
W. H. Dalrymple, M. R. C. V. S., *Vet. Science.*
W. H. Goodale, B. A., *Civics, Moral and Mental Science.*
W. H. Magruder, M. A., *English and English Literature.*
E. S. Benton, First Lieut. Third Artillery, U. S. A., *Military Science and Tactics.*
F. H. Burnette, *Hort.*
H. A. Morgan, B. S. A., *Ent.*
A. T. Prescott, M. A., *Natural History.*
J. H. Randolph, C. E., *Drawing and Mech.*
B. B. Ross, M. S., *Chem. and Mineralogy.*
E. L. Scott, B. A., *Modern Languages.*
H. Skolfield, *Bookkeeping.*
Wm. C. Stubbs, Ph. D., *Agr.*
W. D. Taylor, C. E., *Physics and Civil Engin.*
C. E. Ives, B. A., *Prin. Preparatory Dept.*
D. N. Barrow, B. S., *Agr.*
H. M. Furman, B. S., *Asst. in Preparatory Dept.*

Southern University and Agricultural and Mechanical College, *Camp Parapet.*

COURSE OF STUDY.

The course in agriculture requires four years for completion and leads to the degree of B. S.

BOARD OF INSTRUCTION.

H. A. Hill, *Pres.; Math.*
Hugh Jamieson, *Agr.*
E. P. Baptiste, *Agr.*
William Seymour, *Mech.*
S. M. Angell, M. D., *Anatomy and Vegetable Pathology.*
V. L. Roy, *Chem. and Physics.*
W. J. Nickerson, *Music.*

MAINE.

Maine State College of Agriculture and the Mechanic Arts, *Orono.*

COURSES OF STUDY.

Five full courses of study are provided, each requiring four years for completion: A course in agriculture, a course in chemistry, and a course in science and literature, each leading to the degree of B. S.; a course in civil engineering, leading to the degree of B. C. E.; and a course in mechanical engineering, leading to the degree of B. M. E. Special courses are also provided, leading to certificates.

BOARD OF INSTRUCTION.

M. C. Fernald, M. A., Ph. D., *Pres.; Mental and Moral Science.*
Geo. H. Hamlin, C. E., *Civil Engin.*
Alfred B. Aubert, M. S., *Chem.*
Allen E. Rogers, M. A., *History, Logic, and Polit. Economy.*
Walter Balentine, M. S., *Agr.*
Walter Flint, M. E., *Mech. Engin.*
Francis L. Harvey, M. S., Ph. D., *Natural History.*
James N. Hart, C. E., *Math.*
Howard S. Webb, B. M. E., *Instr. Shop Work; Sec. and Registrar.*
Fred P. Briggs, B. S., *Natural History.*
Nathan C. Grover, B. C. E., *Civil Engin.*
Harriet C. Fernald, M. S., *Lib.*
Welton M. Munson, B. S., *Hort. and Landscape Gardening.*
Horace M. Estabrooke, M. S., M. A., *Rhetoric and Modern Languages.*
James S. Stevens, M. S., Ph. D., *Physics.*
Mark L. Hersey, M. A., Lieut. 9th Infantry, U. S. A., *Military Science and Tactics.*
Gilbert M. Gowell, *Instr. Practical Agr.*
David W. Colby, B. S., *Asst. in Chem.*

MARYLAND.

Maryland Agricultural College, *College Park.*

COURSE OF STUDY.

The course of study requires four years and leads to the degree of B. S.

BOARD OF INSTRUCTION.

R. W. Silvester, *Pres.; Math.*
H. B. McDonnell, M. D., *Chem.*
W. H. Zimmerman, M. A., *Physics.; Instr. German.*
R. H. Alvey, jr., B. A., *English.*
J. H. Grisard, 2d Lieut., U. S. A., *Military Science and Tactics, Math., and Drawing.*
Jas. S. Robinson, *Bot. and Hort.*
M.P. Scott, *Zoöl. and Comparative Anatomy.*
Thos. H. Spence, *Latin and French.*
W. L. Taliaferro, *Agr.*
H. M. Strickler, *Physics.*
H. S. Harrison, *Prin., Preparatory Dept.*
J. R. Owens, M. D., *Registrar; Sec. and Treas. Faculty.*
C E. Straughn, *Instr. Woodwork.*
T. P. Engle, *Instr. Forging and Smithing.*

MASSACHUSETTS.

Massachusetts Agricultural College, *Amherst.*

COURSE OF STUDY.

The course of study requires four years and leads to the degree of B. S.

BOARD OF INSTRUCTION.

H. H. Goodell, M. A., LL. D., *Pres.; Modern Languages and English Literature.*
Levi Stockbridge, *Agr.*
C. A. Goessmann, PH. D., LL. D., *Chem.*
S. T. Maynard, B. S., *Bot. and Hort.*
C. D. Warner, B. S., *Math. and Physics.*
Charles Wellington, PH. D. (*Assoc.*), *Chem.*
C. H. Fernald, PH. D., *Zoöl.*
C. S. Walker, PH. D., *Mental and Polit. Science.*
W. P. Brooks, B. S., *Agr.*
W. M. Dickinson, 1st Lieut. 17th Infantry, U. S. A., *Military Science and Tactics.*
G. F. Mills, M. A., *English.*
R. W. Lyman, LL. B., *Lect. Farm Law.*
J. B. Paige, V. S., *Vet. Science.*

MICHIGAN.

Michigan Agricultural College, *Agricultural College.*

COURSES OF STUDY.

The courses of study are two, each requiring four years for completion and leading to the degree of B. S., the agricultural course and the mechanical course. A post graduate course is also provided.

BOARD OF INSTRUCTION.

O. Clute, M. S., *Pres.*
R. C. Kedzie, M. A., M. D., *Chem.; Curator Chem. Lab.*
Albert J. Cook, M. S., *Zoöl. and Ent.; Curator General Museum.*
William J. Beal, M. S., Ph. D., *Bot. and Forestry; Curator Bot. Museum.*
E. A. A. Grange, V. S., *Vet. Science.*
Henry G. Reynolds, M. S., *Sec.*
Levi R. Taft, M. S., *Hort. and Landscape Gardening.*
Howard Edwards, M. A., LL. D., *English Literature and Modern Languages.*
Lester P. Breckenridge, Ph. B., *Mech. Engin.; Dir. Shops.*
Herman K. Vedder, C. E., *Math. and Civil Engin.*
P. M. Harwood, B. S., *Agr.; Supt. Farm.*
Edson A. Lewis, 2d Lieut., 18th Infantry, U. S. A., *Military Science and Tactics.*
Frank S. Kedzie, (*Adjunct*) *Chem.*
William S. Holdsworth, M. S., *Drawing.*
Philip B. Woodworth, B. S., M. E., *Physics.*
Alvin B. Noble, Ph. B., *English Literature and Modern Languages.*
J. N. McBryde, *Instr. History and Polit. Economy.*
Edgar A. Burnett, B. S., *Agr.; Instr. Animal Industry.*
Fred W. McNair, B. S., *Math.*
Warren Babcock, jr., B. S., *Instr. Math.*
Gilbert H. Hicks, B. S., *Instr. Bot.*
George A. Goodenough, B. S., *Instr. Mech.*
Wilbur O. Hedrick, B. S., *Instr. English.*
William H. Van Dervoort, B. S., *Foreman Iron Shops.*
Alfred G. Gulley, M. S., *Foreman Hort. Dept.*
Albert R. Curtiss, *Foreman Wood Shops.*
E. A. Edgerton, *Engin.*
Mrs. Linda E. Landon, *Lib.*
Thomas Gunson, *Foreman Greenhouses.*
Joseph McCracken, *Foreman Farm.*
Walter D. Groesbeck, B. S., *Asst. Sec.*

MINNESOTA.

College of Agriculture of the University of Minnesota, *Minneapolis.*

COURSE OF STUDY.

The course of study requires four years for completion, and leads to the degree of B. Agr.

BOARD OF INSTRUCTION.

Cyrus Northrop, LL. D., *Pres.*
——— ———, *Agr.*
S. B. Green, B. S., *Hort.*
Otto Lugger, Ph. D., *Ent. and Bot.*
Harry Snyder, B. S., *Agr. Chem.*
C. D. Smith, M. S., *Dairying.*
H. W. Brewster, A. B., *Instr. Math.*

School of Agriculture of the University of Minnesota, *St. Anthony Park.*

COURSE OF STUDY.

The course of study requires two years for completion and leads to a certificate.

BOARD OF INSTRUCTION.

W. W. Pendergast, *Prin.; Civics and Physical Geography.*
H. W. Brewster, B. A., *Asst. Prin.; Math.*
C. D. Smith, M. S., *Agr. and Dairying.*
William Robertson, B. S., *Physics and Language.*
C. R. Aldrich, *Shopwork and Drawing.*
T. L. Haecker, *Breeding and Dairying.*
Samuel B. Green, B. S., *Hort. and Applied Bot.*
Otto Lugger, Ph. D., *Zoöl. and Ent.*
C. Graham, V. M. D., *Physiol. and Vet. Science.*
Harry Snyder, B. S., *Chem.*
J. A. Vye, *Penmanship and Accounts.*
Florence A. Brewster, *Lib.*

MISSISSIPPI.

Mississippi Agricultural and Mechanical College, *Agricultural College.*

COURSE OF STUDY.

The course of study requires four years for completion and leads to the degree of B. S. Post graduate courses and a preparatory course are also provided.

BOARD OF INSTRUCTION.

S. D. Lee, *Pres.*
J. H. Connell, B. S., *Agr.*
A. B. McKay, B. S., *Hort.*
G. C. Creelman, B. S. A., *Biol. and Geol.*
Tait Butler, V. S., *Vet. Science.*
W. L. Hutchinson, M. S., *Chem.*
W. H. Magruder, M. A., *Lib.; English.*
B. M. Walker, M. S., *Math.*
G. W. Burr, Lieut. 1st Artillery, U. S. A., *Military Science and Tactics; (Assoc.) Math.*
Dabney Lipscomb, M. A., *Prin. Preparatory Dept.*
C. T. Ames, B. S., *Hort.*
A. M. Herget, B. S., *Instr. Drawing and Mech. Shops.*
W. R. Perkins, B. S., *Chem.*
J. M. White, M. S., *English and History.*
J. C. Herbert, B. S., *Instr. Preparatory Dept.; Instr. Math.*
J. S. Wallace, B. S., *Instr. Preparatory Dept.*
J. J. Gill, B. S., *Instr. Preparatory Dept.*
A. M. Maxwell, *Instr. Writing and Bookkeeping.*
Harry Gwinner, *Instr. Drawing; Supt. Mech. Shops.*
R. C. King, B. S., *Sec. and Purchasing Agent.*
W. H. Barr, M. D., *Surgeon.*
W. H. Gallaway, *Steward and Jan.*
J. F. Montgomery, *Foreman Farm.*
W. D. Browning, B. M. E., *Instr. Drawing and Mech. Shops.*

Alcorn Agricultural and Mechanical College, *Rodney.*

COURSES OF STUDY.

The courses of study are three: The academic course of three years; the scientific preparatory course of two years, and the scientific course, requiring four years for completion and leading to the degree of B. S.

BOARD OF INSTRUCTION.

J. H. Burrus, M. A., *Pres.; Mental and Moral Philosophy and Civil Government.*
J. D. Burrus, M. A., *Math. and Agr.*
J. C. McAdams, M. A., *Polit. Economy, Bookkeeping, and Rhetoric; Sec. Faculty.*
Joseph Anderson, M. A., *Physics, Chem., and History.*
J. A. Martin, B. S., *English Branches.*
J. A. Lester, B. A., *Instr. Physiol., Zoöl., and Bot.*
B. F. Shannon, B. S., *Instr. English Branches.*
Wm. Townsend, B. S., *Instr. English Branches and Painting.*
T. W. Talley, M. A., *Instr. English Branches and Vocal Music.*
W. H. Luster, B. S., *Instr. English Branches; Lib.*
J. B. Bemiss, *Instr. Carpentering.*
M. Logan, *Instr. Blacksmithing.*
Mrs. L. E. Aray, *Matron.*

MISSOURI.

College of Agriculture and Mechanic Arts of the University of Missouri, *Columbia.*

COURSE OF STUDY.

The course of study requires four years for completion and leads to the degree of B. Agr. There are also two short courses, a farmers' lecture course of three months, and a two years' elementary course. The college also offers a post graduate course, which requires two years for completion, and leads to the degree of M. Agr.

BOARD OF INSTRUCTION.

R. H. Jesse, LL. D., *Pres.*
E. D. Porter, M. A., PH. D., *Dean; Agr.*
P. Schweitzer, PH. D., *Chem.*
E. A. Allen, L. D., *English.*
W. B. Smith, M. A., PH. D., *Math.*
G. D. Purinton, M. A., PH. D., M. D., *Biol.*
M. L. Lipscomb, M. A., *Physics.*
B. B. Buck, Lieut. U. S. A., *Military Science.*
G. C. Broadhead, M. S., *Geol. and Mineralogy.*
Alexander Martin, M. A., LL. D., *Lect. Agricultural Law.*
C. W. Marks, B. E., *Supt. School Mech. Arts.*
C. B. Rearick, *Asst. in Mech. Arts.*
M. S. King, *Instr. Commercial School.*
J. W. Connoway, M. D., D. V. S., *Vet. Science.*
C. A. Keffer, B. Agr., *Hort.*
F. C. Hicks, PH. D., *History and Polit. Science.*
————, *Asst. Agr.*

Lincoln Institute, *Jefferson City.*

COURSE OF STUDY.

No course of study in agriculture has been arranged owing to the small amount of money appropriated for that purpose.

BOARD OF INSTRUCTION.

Inman E. Page, M. A., *Pres.*
J. L. Love, B. A., *Math.*
R. L. Harris, *Natural Science.*
W. A. Magee, *Supt. Industrial Dept.*
A. P. Hollis, *Language and History.*
J. M. Rutledge, *Asst. in Math.*
Luellen Williams, *Asst. in Language.*
J. B. Johnson, *Asst. in Industrial Dept.*

MONTANA.

The agricultural college has been located at Bozeman. Luther Foster, M. S. A., late director of the South Dakota Experiment Station has been elected acting president.

NEBRASKA.

Industrial College of the University of Nebraska, *Lincoln.*

COURSES OF STUDY.

The courses of study are as follows, each requiring four years for completion and leading to the degree of B. S.: General scientific course, electrical and steam engineering course, agricultural course, and civil engineering course. One and two years' courses in elementary agriculture are also provided.

BOARD OF INSTRUCTION.

James H. Canfield, M. A., *Chancellor.*
C. L. Ingersoll, M. S., *Dean; Agr.*
H. H. Nicholson, M. A., *Chem.*
H. E. Hitchcock, PH. D., *Math.*
L. A. Sherman, PH. D., *English Literature.*
C. E. Bessey, PH. D., *Bot.*
Rachel Lloyd, PH. D., *Anal. Chem.*
DeW. B. Brace, PH. D., *Physics.*
C. N. Little, PH. D., *Civil Engin.*
J. J. Pershing, 2d Lieut. 6th Cavalry, U. S. A., *Military Science and Tactics.*
F. W. Adams, *English.*
H. K. Wolfe, *Philosophy.*
H. W. Caldwell, PH. B. (*Assoc.*), *American History and Civics.*
Laurence Fossler, M. A. (*Assoc.*), *Germanic Languages.*
J. R. Wightman, PH. D. (*Assoc.*), *Romance Languages.*
E. H. Barbour, PH. D. (*Assoc.*), *Geol. and Zoöl.*
F. M. Fling, PH. D. (*Assoc.*), *European History.*
H. N. Allen, PH. D. (*Adjunct*), *Physics.*
T. M. Hodgman, B. A. (*Adjunct*), *Math.*
F. W. Taylor (*Assoc.*), *Hort.*
R. B. Owens, E. E. (*Assoc.*), *Elect. Engin.*
W. R. Frazer, B. A., *Asst. Prin. Preparatory Courses.*
R. W. Furnas, *Lect. Forestry.*
H. E. Fulmer, M. A., *Instr. Chem.*
O. V. P. Stout, B. C. E., *Instr. Math. and Civil Engin.*
Lawrence Bruner, *Instr. Ent.*
G. B. Hussey, PH. D., *Instr. Latin.*
Mary A. Tremain, *Instr. History.*
Herbert Bates, B. A., *Instr. English.*
T. L. Lyon, B. S., *Instr. Agr. Chem.*
A. F. Woods, B. S., *Asst. Bot. Lab.*
C. R. Richards, M. E., *Manual Training.*
Wilbur P. Bowen, *Instr. Physical Training.*
Kate Wilder, *Instr. Physiol. and Hygiene.*
Carrie M. Barton, *Instr. Clay Modeling and Wood Carving.*

NEVADA.

School of Agriculture of the Nevada State University, *Reno.*

COURSE OF STUDY.

The regular course requires four years for completion and leads to the degree of B. S. A short course in agriculture is also provided, requiring five months of each year for four years and leading to no degree.

BOARD OF INSTRUCTION.

S. A. Jones, M. A., PH. D., *Pres.*
Hannah K. Clapp, M. A., *Preceptress and Lib.*
W. McN. Miller, B. S., *Anatomy, Physics, and Geol.*
R. D. Jackson, PH. B., *Mining, Metallurgy, and Assaying.*
J. Warne Phillips, D. S., *Chem. and Physics.*
F. H. Hillman, M. S., *Ent. and Bot.*
Mrs. Mary W. Emery, *Pedagogy; Prin. Normal School.*
Robert Lewers, *Polit. Econ. and Commercial Law.*
J. M. Neall, 1st Lieut. 4th Cavalry, U. S. A., *Military Science and Tactics, Math., and Modern Languages.*
R. H. McDowell, B. S., *Agr. and Hort.*
T. W. Cowgill, M. A., *English.*
Henry Thurtell, B. S., *Mech. and Mech. Drawing.*
James E. Church, jr., B. A., *Instr. Latin.*
Frederick Stadtmüller, B. S., *Chem. and Physics.*
Richard Brown, *Supt. Mech. Dept.*

NEW HAMPSHIRE.

New Hampshire College of Agriculture and the Mechanic Arts, *Hanover.*

COURSES OF STUDY.

There are five courses of study, each requiring four years for completion and leading to the degree of B. S.: Course in agriculture, course in chemistry, course in mechanical engineering, course in electrical engineering, and general course open to women.

BOARD OF INSTRUCTION.

Lyman D. Stevens, *Pres.*
Chas. H. Pettee, M. A., C. E., *Dean; Math. and Civil Engin.*
Henry G. Jesup, M. A., *Natural History.*
Clarence W. Scott, M. A., *English Language and Literature.*
Geo. H. Whitcher, B. S., *Agr.*
Clarence M. Weed, D. S., *Zoöl. and Ent.*
Albert H. Wood, B. S., (*Assoc.*) *Agr.*
Fred W. Morse, B. S., *Organic Chemistry.*
Chas. L. Parsons, B. S., *General and Anal. Chem.*
Albert Kingsbury, M. E., *Mech. Engin.*
Geo. L. Teeple, M. E., *Instr. Elect. Engin. and Physics.*
Edwin B. Davis, B. L., *Instr., Modern Languages.*
Chas. H. Hitchcock, PH. D., *Instr. Geol.*
Saurin J. Blanpied, M. A., *Instr. Elocution.*
John N. Brown, *Foreman Machine Work.*
Allen G. Lowell, *Foreman Woodwork.*

NEW JERSEY.

Rutgers Scientific School, *New Brunswick.*

COURSES OF STUDY.

There are five distinct courses of study: A course in agriculture, a course in civil engineering and mechanics, a course in chemistry, a course in electricity, and a course in biology. Each course requires four years for completion and leads to the degree of B. S.

BOARD OF INSTRUCTION.

Austin Scott, PH. D., LL. D., *Pres.; History and Polit. Science.*
Carl Meyer, D. D., *Modern Languages and Literature.*
F. C. Van Dyck, PH. D., *Physics and Experimental Mech.*
E. A. Bowser, C. E., LL. D., *Math. and Engin.*
C. E. Hart, D. D., *English and Literature.*
Louis Bevier, jr., PH. D., *Modern Languages.*
A. A. Titsworth, M. S., C. E., *Graphics and Math.*
Julius Nelson, PH. D., *Biol.*
B. D. Halsted, D. SC., *Bot. and Hort.*
J. B. Smith, D. SC., *Ent.*
E. B. Voorhees, M. A., *Agr.*
W. R. Duryee, D. D., *Ethics, Evidences of Christianity, and English Bible.*
A. H. Chester, M. E., PH. D., D. SC., *Chem.*
J. J. Brereton, 1st Lieut. 24th Infantry, U. S. A., *Military Science and Tactics.*
J. C. Van Dyke, L. H. D., *History of Art.*
R. W. Prentiss, *Math. and Astronomy.*
I. S. Upson, M. A., *Lib. and Registrar.*
E. L. Stephenson, PH. D. (*Assoc.*), *History.*
C. L. Speyers, PH. B. (*Assoc.*), *Chem.*
E. L. Barbour, *Instr. Elocution.*
G. A. Mitchell, B. S., *Asst. in Chem.*
W. E. Breazeale, M. PH., *Instr. Math.*
Eugene Betts, B. S., *Instr. Elec. and Physics.*
J. R. Campbell, M. A., *Instr. and Extension Lect. English.*
A. H. Pepper, M. A., *Instr. Modern Languages.*
P. T. Austen, PH. D., *Extension Lect. Chem.*
F. R. Van Horn, B. S., *Asst. in Mineralogy.*

NEW MEXICO.

New Mexico College of Agriculture and Mechanic Arts, *Las Cruces.*

COURSES OF STUDY.

The courses of study are four: A course in science and agriculture, a course in mechanical engineering, a course in civil engineering, and a classical and scientific course.

BOARD OF INSTRUCTION.

H. Hadley, M. A., *Pres.*
A. E. Blount, M. A., *Hort., and Agr.*
E. O. Wooton, B. S., *Bot.*
Arthur Goss, B. S., A. C., *Chem.*
J. P. Owens, *Prin. Preparatory School; Civics.*
C. T. Hagerty, B. S., *Math.*
C. H. Tyler Townsend, *Ent. and Physiol.*
A. J. Wiechardt, M. M. E., *Mech. Engin.*
F. F. Barker, *Instr. Languages.*
A. E. Davison, *1st Asst. Preparatory School; Instr. Drawing.*

NEW YORK.

College of Agriculture of Cornell University, *Ithaca.*

COURSES OF STUDY.

The regular course of study requires four years for completion and leads to the degree of B. S. A post graduate course, leading to the degree of M. S., is provided, and special courses are also arranged.

BOARD OF INSTRUCTION.

Jacob G. Schurman, B. A., D. Sc., LL. D., *Pres.*
Geo. C. Caldwell, B. S., Ph. D., *Agr. and Anal. Chem.*
James Law, F. R. C. V. S., *Vet. Medicine and Surgery.*
Albert N. Prentiss, M. S., *Bot., Hort., and Arbor.*
Isaac P. Roberts, M. Agr., *Dean; Agr.*
John H. Comstock, B. S., *Ent. and General Invertebrate Zoöl.*
L. H. Bailey, M. S., *General and Experimental Hort.*
Henry H. Wing, M. S., *Animal Industry and Dairy Husbandry.*
Louis M. Dennis, Ph. B., B. S., *Anal. Chem.*
Geo. F. Atkinson, Ph. B., *Cryptogamic Bot.*
Willard W. Rowlee, B. L., *Instr. Bot.*

NORTH CAROLINA.

The North Carolina College of Agiculture and Mechanic Arts, *Raleigh.*

COURSES OF STUDY.

The general courses of study are two, each requiring four years for completion: Agricultural course, leading to the degree of B. S. A., and mechanical course, leading to the degree of B. E.

BOARD OF INSTRUCTION.

Alexander Q. Holladay, *Pres.*
Jos. R. Chamberlain, B. S., *Agr.*
W. F. Massey, C. E., *Hort., Arbor., and Bot.*
W. A. Withers, M. A., *Chem.*
D. H. Hill, jr., M. A., *English and Book-keeping.*
J. H. Kinealy, D. E., *Math. and Practical Mech.*
F. E. Emery, B. S., *Agr.*
C. M. Pritchett, *Instr. Mech.*
C. B. Parke, *Asst. Instr. Mech.*
H. W. Miller, *Instr. Chem.*
R. E. L. Yates, B. A. (*Adjunct*), *Math.*

NORTH DAKOTA.

North Dakota Agricultural College, *Fargo.*

COURSES OF STUDY.

The course in agriculture requires four years for completion and leads to the degree of B. S. In addition to the regular course there is a short course in agriculture and domestic economy, which requires three months in each of two consecutive winters for completion.

BOARD OF INSTRUCTION.

H. E. Stockbridge, PH. D., *Pres.*
E. F. Ladd, B. S., *Chem.*
T. D. Hinebauch, M. S., V. S., *Vet. Science.*
C. B. Waldron, B. S., *Hort. and Forestry.*
H. L. Bolley, M. S., *Bot. and Zoöl.*
W. M. Hays, B. S., *Agr.*
E. S. Keene, B. S., *Mech.*
H. W. McArdle, B. S., *Instr. Math.*
W. H. Whalen, PH. B., *Instr. English.*
L. H. Hibbard, *Farm Supt.*
Mrs. C. B. Waldron, *Lib.*
W. G. Hayden, *Accountant and Bursar.*

OHIO.

Ohio State University, *Columbus.*

COURSES OF STUDY.

The general courses of study are four, requiring four years each for completion and leading, respectively, to the degrees of B. A., PH. B., and B. S. There are now two courses leading to the degree of PH. B.; in one the languages are Latin and French, and in the other German and French. The following technical courses are provided: A course for the degree of B. S. A., requiring four years; a course for the degree of B. S. H., requiring four years; a course for the degree of D. V. M., requiring three years; a course for the degree of C. E., requiring four years; two courses for the degree of M. E., each requiring four years, one in mechanical engineering and one in electrical engineering; a course for the degree of engineer of mines, requiring four years; a course for the degree of graduate in pharmacy, requiring three years; a short course in agriculture, requiring two years; and a short course in mining, requiring two years. Provision is also made for post graduate study leading to degrees, and for preparatory work.

BOARD OF INSTRUCTION.

W. H. Scott, M. A., LL. D., *Pres.; Philosophy.*
Edward Orton, PH. D., LL. D., *Geol.*
S. A. Norton, PH. D., LL. D., *Chem.*
N. S. Townshend, M. D., (*Emeritus*) *Agr.*
S. W. Robinson, C. E., *Mech. Engin.*
N. W. Lord, M. E., *Mineralogy and Metallurgy.*
S. C. Derby, M. A., *Latin.*
W. R. Lazenby, M. AGR., *Hort.*
J. R. Smith, M. A., *Lib.; Greek.*
H. A. Weber, PH. D., *Agr. Chem.*
B. F. Thomas, PH. D., *Physics.*
G. W. Knight, PH. D., *Sec. Faculty; History and Polit. Science.*
H. J. Detmers, D. V. M., *Vet. Surgery.*
R. D. Bohannan, B. S., C. E., M. E., *Math. and Astronomy.*
D. S. Kellicott, PH. D., *Zoöl. and Ent.*
C. N. Brown, C. E., *Civil Engin.*
E. A. Eggers, *German.*
Albert M. Bleile, M. D., *Anatomy and Physiol.*
Eugene T. Wilson, 2d Lieut. 1st Artillery, U. S. A., *Military Science and Tactics.*
W. A. Kellerman, PH. D., *Bot. and Forestry.*
Thos. F. Hunt, B. S., *Agr.*
G. B. Kauffman, B, S. (*Assoc.*), *Pharmacy.*
Jas. Chalmers, PH. D. (*Assoc.*), *English Literature.*
B. L. Bowen, PH. D. (*Assoc.*), *Romance Languages and Literature.*
J. V. Denny, B. A. (*Assoc.*), *Rhetoric.*
G. W. McCoard, M. A., *Math.*
F. W. Sperr, M. E., *Mining Engin.*
J. N. Bradford, M. E., *Drawing.*
G. P. Coler, B. A., *Philosophy.*
O. B. Jones, *Asst. Lib.*
C. W. Mesloh, B. A., *Asst. in German.*
J. R. Taylor, B. A., *Asst. in Drawing.*
A. D. Haines, *Asst. in Mech. Lab.*
C. L. Arnold, B. S., *Asst. in Math.*
C. B. Morrey, B. A., *Asst. in Latin and Physiol.*
C. A. Dye, PH. G., *Asst. in Chem. and Pharmacy.*
L. M. Bloomfield, B. AGR., *Asst. in Agr. Chem.*
W. C. Werner, *Asst. in Bot.*
F. J. Combs, *Asst. in Mech. Lab.*
E. A. Kemmler, C. E., *Asst. in Civil Engin.*
W. H. Siebert, M. A., *Asst. in History and Polit. Science.*
J. E. Boyd, B. S., *Asst. in Physics.*
H. C. Lord, B. S., *Asst. in Math. and Astronomy.*
H. A. Surface, B. S., *Asst. in Geol.*
Wm. McPherson, jr., M. SC., *Asst. in Chem.*
Wallace S. Eldon, M. A., *Asst. in Latin and French.*
Paul Fischer, B. AGR., D. V. M., *Asst. in Vet. Medicine.*
Vernon J. Emery, M. A., *Asst. in Latin.*
W. N. Gladson, B. M. E., *Asst. in Elect. Engin.*

OKLAHOMA.

Agricultural and Mechanical College of Oklahoma, *Stillwater.*

COURSE OF STUDY.

The course of study requires four years for completion, and leads to the degree o' B. Sc.

BOARD OF INSTRUCTION.

R. J. Barker, C.E., *Pres.; Moral and Mental Science.*
J. C. Neal, PH.D., M.D., *Natural Science.*
E. F. Clark, *Math.*
W. W. Hutto, B. SC., *English Literature; Tactician and Commandant.*
A. C. Magruder, B. SC., *Agr. and Hort.*
G. L. Holter, B. SC., *Chem. and Physics.*

OREGON.

Oregon State Agricultural College, *Corvallis.*

COURSES OF STUDY.

The courses of study are three: A course in agriculture, requiring three years for completion and leading to the degree of B. S. A.; a course in mechanical engineering, requiring four years for completion and leading to the degree of B. M. E.; and a course in household economy (for girls) leading to the degree of B. H. E.

BOARD OF INSTRUCTION.

J. M. Bloss, M.A., *Pres.; Mental and Moral Science.*
J. D. Letcher, C.E., *Math. and Engin.*
F. Berchtold, M. A., *Modern Languages, History, Drawing, and Music.*
Margaret Snell, M. D., *Household Economy and Hygiene.*
G. A. Covell, M. S., *Mech. and Mech. Engin.*
F. L. Washburn, B. A., *Zoöl. and Ent.*
H. T. French, M. S., *Agr.*
M. Craig, M.S., *Bot.*
G. W. Shaw, M. A., *Chem.*
George Coote, *Instr. Hort.*
W. W. Bristow, B. A., *Prin. Preparatory Dept.; Bookkeeping.*
D. Lotz, M. D., *Chem.*
C. D. Thompson, B. A., *Foreman Agr. Dept.*
E. M. Belknap, *Engin.; Instr. Wood and Metal Work.*

PENNSYLVANIA.

Pennsylvania State College, *State College.*

COURSES OF STUDY.

The courses of study are as follows, each requiring four years for completion unless otherwise specified: General science course; Latin scientific course; course in agriculture; course in chemistry; course in physics and electrotechnics; course in civil engineering; course in mechanical engineering; course in natural history; course in mechanic arts, requiring three years; ladies' course in literature and science, requiring two years; and special course in chemistry, requiring two years for completion. The four years' courses lead to the degree of B. S., the diploma containing mention of line of work pursued. Provision is also made for post graduate study, leading to advanced degrees, and for preparatory work.

BOARD OF INSTRUCTION.

Geo. W. Atherton, LL. D., *Pres.; Polit. and Social Science.*
William A. Buckhout, M. S., *Bot. and Hort.*
I. Thornton Osmond, M. S., M. A., *Physics.*
Josiah Jackson, M. A., *Math.*
Louis H. Barnard, C. E., *Civil Engin.*
Harriet A. McElwain, M. A., *Lady Prin.; History.*
Louis E. Reber, M. S., *Mech. and Mech. Engin.*
William Frear, PH. D., *Sec. Faculty; Agr. Chem.*
Geo. G. Pond, M. A., PH. D., *Chem.*
Edgar F. Davis, M. A., *English and Rhetoric.*
Henry P. Armsby, PH. D., *Lect. Animal Chem. and Cattle Feeding.*
Edward E. Sparks, M. A., *Prin. Preparatory Dept.*
Henry J. Waters, B. AGR., *Agr.*
Henry T. Fernald, PH. D., *Zoöl.*
Benjamin Gill, M. A., *Latin.*
William C. Thayer, M. A., *Modern Languages.*
E. W. McCaskey, 1st Lieut. 4th Infantry U. S. A., *Military Science and Tactics.*
John Pemberton, C. E. (U. S. N.), *Mech. Engin.*
John P. Jackson, B. S., M. E., *Elec. Engin.*
Geo. C. Butz, M. S., *Asst. in Bot. and Hort.*
William H. Caldwell, B. S., *Instr. Agr.*
Franklin E. Tuttle, B. A., *Instr. Chem. and Mineralogy.*
Jennie J. Willard, *Instr. Music.*
T. Raymond Beyer, B. S., C. E., *Instr. Civil Engin.*
Annie E. Redifer, *Instr. Industrial Art and Design.*
William H. Walker, PH. D., *Instr. Chem.*
Henry W. Ruoff, *Instr. Psychology and Ethics.*
Maurice J. Thompson, B. A., *Instr. Math.*
William M. Towle, B. S., *Instr. Mech. Engin. and Foreman of Shop.*
William J. Karslake, B. S., *Asst. in Chem. Lab.*
Curtin J. Roop, B. S., *Instr. Preparatory Dept.; Instr. English and Latin.*
Geo. T. Sellew, M. A., *Instr. Preparatory Dept.; Instr. Math.*
Augustus C. Read, B. S., *Instr. Mech. Drawing.*

RHODE ISLAND.

Department of Agriculture and Mechanic Arts of Brown University, *Providence.*

COURSES OF STUDY.

The courses of study are five, each requiring four years for completion: The course for the degree of B. A., the course for the degree of Ph. B., the course for the degree of B. S., the course for the degree of C. E., and the course for the degree of M. E. Studies in agriculture and ancillary sciences forming a portion of the work of the fourth year, are required of all students appointed to the scholarships afforded by the income of the national grant. A continually widening range of studies in the branches relating to agriculture, and in the various mathematical and mechanical arts, is offered to all the students in the university.

BOARD OF INSTRUCTION.

E. B. Andrews, D. D., LL. D., *Pres.; Moral and Intellectual Philosophy.*
Albert Harkness, PH. D. (*Emeritus*), *Greek.*
B. F. Clark. M. A., *Math. and Engin.*
J. H. Appleton, M. A., *Chem.*
E. W. Blake, M. A., *Physics.*
J. W. P. Jenks, M. A., *Agr. Zoöl.; Curator Museum.*
W. C. Poland, M. A., *Fine Arts; Curator, Museum Classical Archæology.*
Alonzo Williams, M. A., *German.*
A. S. Packard, PH. D., *Zoöl. and Geol.*
N. F. Davis, M. A., *Pure Math.*
W. W. Bailey, B. P., *Bot.*
Winslow Upton, M. A., *Astronomy; Dir. Observatory.*
C. V. Chapin, M. D., *Physiol.; Dir. Physical Culture.*
J. F. Jameson, PH. D., *History.*
W. C. Bronson, M. A., (*Assoc.*), *English Literature.*
A. G. Harkness, M. A., (*Assoc.*), *Latin.*
H. B. Gardner, PH. D., *Polit. Economy.*
J. M. Manly, PH. D., *English Language.*
G. G. Wilson, PH. D., (*Assoc.*), *Polit. and Social Science.*
W. G. Everett, M. A., *Instr. Latin and Greek.*
H. P. Manning, PH. D., *Instr. Math.*
F. T. Guild, M. A., *Sec. Faculty.*
E. H. Brownell, *Instr. Civil Engin.*
H. C. Bumpus, PH. D., *Comparative Anatomy; Asst. Curator Museum.*
Courtney Langdon, B. A., (*Assoc.*), *Romance Languages.*
L. Sears, L. H. D., *Rhetoric.*
W. H. Munro, M. A., (*Assoc.*), *History; Dir. Univ. Extension.*
O. E. Randall, M. A., (*Assoc.*), *Mech. Drawing.*
J. R. Jewett, PH. D., (*Assoc.*), *Semitic Languages.*
E. B. Delabarre, *Psychology.*
E. E. Calder, *Instr. Chem.*
L. F. Snow, M. A., *Dean of Women's College.*
W. D. Mount, M. E., *Instr. Practical Physics.*
J. L. Bennett, B. A., *Curator Herbaria and Museum Economic Bot.*
A. C. Crowell, M. A., *Instr. French and German.*
A. Scott, M. A., *Instr. German.*
W. M. Saunders, *Instr. Chem.*
J. F. Greene, B. A., *Instr. Greek and Latin.*
F. E. Parker, B. A., *Instr. Physical Culture.*
C. E. Wilson, B. S., *Instr. Chem.*
J. I. Manatt, LL. D., *Greek.*
H. T. Hildreth, B. A., *Asst. in Greek.*
Wm. J. Pardee, 1st Lieut. 25th Infantry, *Military Tactics.*
J. L. Alger, B. A., *Instr. Pure Math.*
C. M. Brink, B. A., *Instr. Rhetoric.*
E. C. Burnham, B. S., *Instr. Mech. Drawing and Mech. Engin.*
B. Newhall, PH. D., *Instr. Greek.*
A. B. Johnson, M. A., *Instr. Romance Languages.*
W. H. Eddy, B. A., *Instr. English.*
W. C. Langdon, B. A., *Instr. English.*
M. S. Brown, B. P., *Instr. English.*
H. M. Stone, B. P., *Instr. English.*
R. W. Tower, B. A., *Instr. Biol.*
A. N. Leonard, B. A., *Instr. German.*
F. B. Davis, *Fencing.*
F. E. Lester, *Instr. Carpenter shop.*
F. E. Stark, *Instr. Machine shop.*
G. M. Gray, *Asst. in Anatomical Lab.*

Rhode Island College of Agriculture and Mechanic Arts, *Kingston.*

COURSE OF STUDY.

The course of study in agriculture requires three years for completion and leads to the degree of B. AGR. Partial courses and a winter course are also provided.

BOARD OF INSTRUCTION.

J. H. Washburn, PH. D., *Pres.; Chem.*
C. O. Flagg, B. S., *Agr.*
L. F. Kinney, B. S., *Hort. and Bot.*
H. J. Wheeler, PH. D., *Geol.*
A. Bosworth, M. A., *Math.*
——— ———, *Vet. Science.*
——— ———, *Mech. Engin.*
B. B. Howard, LL. B., *Lect. Business Law and Rural Law; Instr. Bookkeeping.*
Samuel Cushman, *Lect. Bee Keeping.*
E. J. Watson, M. A., *Instr. English, French, and Latin.*
T. C. Rodman, *Instr. Wood and Iron Work.*
F. A. Lane, *Instr. Mech. Drawing; Asst. Instr. Woodwork.*
Miss Jennie Hammond, *Instr. Drawing.*
B. L. Hartwell, B. S., *Instr. Music.*
Mrs. F. G. Pratt, *Matron.*
H. F. Adams, *Farm Supt.*

SOUTH CAROLINA.

Clemson Agricultural College, *Fort Hill.*

The College of Agriculture and Mechanic Arts has been removed from Columbia to Fort Hill, but owing to the failure on the part of the legislature to make an appropriation sufficient to complete the buildings, the college has not as yet been opened.

College of Agriculture and Mechanics' Institute, of Claflin University, *Orangeburg.*

COURSES OF STUDY.

The regular courses of study are ten: The college classical course, requiring four years for completion and leading to the degree of B. A.; the college scientific course, requiring four years and leading to the degree of B. S.; the college philosophical course, requiring four years and leading to the degree of PH. B.; the college preparatory course and the normal course, each requiring three years and leading to a diploma; the English course, requiring seven years and leading to a certificate; the kindergarten course, requiring one year and leading to a certificate; the English Bible course, requiring four years and leading to a certificate; the music course, requiring four years and leading to a certificate; and the art course, requiring three years and leading to a certificate. Twenty industrial courses are also provided to be pursued in connection with the courses above.

BOARD OF INSTRUCTION.

L. M. Dunton, M. A., D. D., *Pres.*
J. S. Heyward, M. A., *Natural Science.*
Mrs. L. M. Dunton, M. A., *Preceptress; Rhetoric, Literature, and German.*
W. L. Bulkley, M. A., *Greek, Latin, and German.*
Mortimer Glover, B. A., *History and Polit. Science.*
P. F. Stevens, D. D., *Math.; Instr. English Bible.*
Mrs. C. D. Mead, *Lib.*
Thos. J. Penfield, B. A., *Greek.*
Chas. H. Sears, *Pedagogics.*
Jos. C. Hartzell, jr., *Biol. and Mineralogy.*
C. D. Mead, M. A., *Pedagogy; Instr. Vocal Music.*

SOUTH DAKOTA.

South Dakota Agricultural College, *Brookings.*

COURSES OF STUDY.

The courses of study are four: A course in agriculture; a course in domestic economy; a course in mechanic arts, and a course in pharmacy. The first three require four years for completion and lead to the degree of B. S.; the last requires two years and leads to no degree.

BOARD OF INSTRUCTION.

Lewis McLouth, M. A., PH. D., *Pres; Astronomy and Physics.*
——— ———, *Agr.*
George E. Dawson, A. B., *History and Polit. Economy.*
J. C. Whitten, B. S. (*Acting*), *Forestry.*
Nellie E. Folsom, B. S., *Preceptress; Instr. Languages.*
J. H. Shepard, D. S., *Chem.*
L. C. Corbett, *Hort.*
Peter Leary, jr., Capt. 4th Artillery, U. S. A., *Military Science and Tactics.*
W. H. H. Phillips, M. A., PH. D., *Math.*
A. H. Wheaton, *Dairy Science.*
H. C. Solberg, *Instr. Wood Shop Work, and Mech. Drawing.*
C. G. Hopkins, B. S., *Asst in Chem.*
T. A. Williams, M. S. (*Acting*) *Bot. and Ent.*
C. R. Waters, M. A., *English.*
Carrie M. Barton, *Instr. Free-Hand Drawing and Wood Carving.*
A. W. Williams, *Foreman Farm.*
W. H. Murphy, *Foreman Gardens.*
Marcus Johnson, *Instr. Forging, Engin. and Steam Fitter.*
Lilla A. Harkins, B. S., *Domestic Economy.*

TENNESSEE.

State Agricultural and Mechanical College of the University of Tennessee, *Knoxville.*

COURSES OF STUDY.

The courses of study are six: General course, course in agriculture, course in civil engineering, course in mechanical engineering, course in electrical engineering, and course in mining engineering. The degrees of B. A. and B. S. are conferred.

BOARD OF INSTRUCTION.

C. W. Dabney, jr., PH. D., LL. D., *Pres.; Chem.*
W. W. Carson, C. E., *Civil Engin.*
F. Lamson-Scribner, B. S., *Bot. and Hort.*
C. E. Wait, C. E., M. E., *Chem.*
T. W. Jordan, M. A., *Latin.*
C. W. Kent, M. A., PH. D., *English and German.*
C. F. Vanderford, *Agr.*
F. M. Smith, *History of Education and Pedagogy.*
L. D. Tyson, 1st Lieut. 9th Infantry, U. S. A., *Military Science and Tactics.*
T. C. Karns, M. A., *English Literature, History, and Philosophy.*
C. D. Schmitt, M. A., *Math.*
G. F. Mellen, PH. D., *Greek and French.*
Charles A. Perkins, PH. D., *Physics and Elect. Engin.*
S. W. McCallie, *Instr. Geol. and Zool.*
J. R. McColl, B. S., *Instr. Mech.; (Acting) Supt. Shops.*
E. MacM. Davis, B. A., *Instr. English and Latin.*
R. L. Watts, B. A., *Instr. Bot. and Hort.*
J. D. Hoskins, *Instr. Modern Languages.*
W. N. Price, B. S., *Instr. Languages and Literature.*
Charles Ferris, B. S., *Asst. in Drawing.*
Henry E. Thompson, B. A., *Instr. Math.*
A. B. Wegener, *Instr. Physical Culture.*
E. Wiley, B. S., *Lib.*

TEXAS.

State Agricultural and Mechanical College of Texas, *College Station.*

COURSES OF STUDY.

The courses of study are two, each extending through four years: The agricultural course, leading by specialization of studies either to the degree of B. S. H. or to the degree of B. S. A., and the mechanical course, leading in a similar way to the degree of B. C. E. or to the degree of B. M. E. Post graduate and special courses are also provided.

BOARD OF INSTRUCTION.

L. S. Ross, *Pres.*
W. S. Bringhurst, PH. D., *V. Pres; English and History.*
R. H. Whitlock, M. E., *Mech. Engin.*
G. W. Curtis, M. S. A., *Agr.*
H. H. Harrington, M. S., *Chem. and Mineralogy.*
C. Puryear, M. A., C. E., *Math.*
T. C. Bittle, PH. D., *Languages.*
B. C. Morse, 1st Lieut. 18th Infantry, U. S. A., *Military Science and Commandant.*
Mark Francis, D. V. M., *Vet. Science.*
F. E. Giesecke, M. E., *Drawing.*
J. C. Nagle, B. S., *Civil Engin. and Physics.*
R. F. Smith, (*Assoc.*), *Math.*
A. L. Banks, (*Adjunct*), *Math.*
W. B. Philpott, M. S., *English.*
J. M. Carson, *Agr.*
P. S. Pilson, *Chem. and Mineralogy.*
Helge Ness, B. S., *Hort. and Bot.*
A. M. Guenther, *Instr. Blacksmithing and Foreman Machine Shop.*
D. W. Spence, C. E., *Civil Engin. and Physics.*
W. S. Red, *Chaplain and Lib.*
A. C. Gillespie, M. D., *Surgeon.*
J. H. Carter, *Sec.*
E. W. Hutchinson, B. C. E., *Bookkeeper.*
Bernard Shisa, *Steward.*
C. A. Lewis, *Foreman Carpenter Shop.*
J. H. Alsworth, *Foreman Farm.*
Jas. B. Watts, *Stockman.*
G. E. Eberspacher, *Foreman Garden and Greenhouse.*

Prairie View State Normal School, *Prairie View.*

COURSE OF STUDY.

The course in agriculture requires two years for completion.

BOARD OF INSTRUCTION.

S. C. Anderson, M. A., *Prin.*

Assistants.

C. W. Lieckie, B. A.
M. H. Brogles.
J. D. Johns.
Leonora Arvy.
E. H. Holmes.
J. H. Reed, B. A.
Paul Bledsoe.
E. A. Daule.
W. B. Woodruff, B. S.
Harriet F. Kimbro.

UTAH.

Agricultural College of Utah, *Logan.*

COURSES OF STUDY.

The college work includes five distinctive lines of instruction: Course in agriculture, course in domestic arts, course in mechanic arts, course in civil engineering, business course. There are four special courses, two years' course in agriculture, two years' course in domestic arts, course in mining engineering, course in irrigation engineering, and apreparatory department. In addition to these special courses there have been organized two courses of winter lectures covering ten weeks each: A course of agricultural lectures and a course of lectures for the domestic arts department. The courses in mechanical and in mining and irrigation engineering will be postgraduate courses of one year each.

BOARD OF INSTRUCTION.

J. W. Sanborn, B. S., *Pres.; Agr.*
E. S. Richman, M. S. A., *Hort. and Bot.*
W. P. Cutter, B. S., *Physics and Geol.*
Abby L. Marlatt, M. S., *Domestic Economy.*
J. M. Sholl, B. M. E., *Mech. Engin.*
J. T. Caine, jr., *Instr. Preparatory Dept.*
A. A. Mills, B. S., *Agr.*
S. S. Twombly, M. S., D. V. S., *Chem. and Vet. Science.*
F. B. Linfield, *Animal Husbandry.*
J. E. Shepard, *Prin. Commercial Dept.*
Mrs. S. A. Eddy, *Instr. Preparatory Dept.*
Miss L. S. Throop, *Instr. Music.*
E. J. MacEwan, M. A., *English and Modern Languages.*
James Dryden, *Instr. Commercial Dept.*
Miss E. A. Little, B. Sc., *Instr. Sewing.*
Miss Clara Kenyon, *Elocution; Lib.*
F. W. Brewer, M. A., M. D., *Biol.*
G. A. Orrok, *Shopwork and Drawing.*
H. D. Styer, 1st Lieut. 13th Infantry, U. S. A., *Military Science and Math.*
S. Fortier, B. S. A., C. E., *Civil and Hydraulic Engin.*

VERMONT.

University of Vermont and State Agricultural College, *Burlington.*

COURSES OF STUDY.

In the department of agriculture the courses of study are four; the agricultural course requiring four years and leading to a degree; the short course in agriculture requiring two years; the special course of one year, and the dairy-school course occupying four weeks.

BOARD OF INSTRUCTION.

M. H. Buckham, D. D., *Pres.; Polit. and Social Philosophy.*
V. G. Barbour, Ph. B., C. E., *Civil Engin.*
G. H. Perkins, Ph. D., *Natural History.*
J. K. Chickering, M. A., *English Language and Literature and Elocution.*
N. F. Merrill, Ph. D., *Chem.*
A. L. Daniels, D. S., *Math. and Physics.*
J. W. Votey, C. E., *Civil Engin.*
Horatio Loomis, D. Sc., *Mineralogy.*
W. W. Cooke, M. A., *Agr.*
L. J. Huff, *Modern Languages.*
H. S. Foster, Captain 20th Infantry, U. S. A., *Military Tactics.*
F. M. Corse, *Instr. Math.*
L. R. Jones, Ph. B. (*Assoc.*) *Natural History.*
J. L. Hills, B. S., *Instr. Chem.*
A. W. Ayer, *Instr. Mech. Engin.*
F. A. Rich, *Instr. Vet. Science.*
H. B. Chittenden, M. A., *Instr. English.*

VIRGINIA.

Virginia Agricultural and Mechanical College, *Blacksburg.*

COURSES OF STUDY.

The courses of study are three, each requiring four years for completion and leading to the degree of B. S.: Agricultural course, mechanical course, and general science course. There are also two courses which require two years for completion and lead to a certificate of practical agriculture and practical mechanics.

BOARD OF INSTRUCTION.

J. M. McBryde, PH.D., LL.D. *Pres.; Agr. Chem.*
J. E. Christian, M. A., *Math. and Civil Engin.*
J. H. Fitts, *Mech. Engin.*
W. B. Alwood, *Hort., Ent., and Myc.*
E. E. Sheib, PH.D., *English History and Polit. Economy.*
E. A. Smyth, jr., M. A., *Biol.*
T. P. Campbell, M. A., (*Adjunct*), *Modern Languages.*
W. E. Anderson, (*Adjunct*), *Physics and Elect. Engin.; Dir. Shops.*
R. C. Price, (*Adjunct*), *Chem., Mineralogy, and Geology.*
D. O. Nourse, B. S., (*Adjunct*), *Agr.*
J. A. Harman, 2d lieut. 7th Cavalry, U. S. A., *Math., Military Science and Tactics.*
R. J. Davidson, M. A., (*Adjunct*), *Anal. Chem.*
E. P. Niles, D. V. M., (*Adjunct*), *Vet. Science.*
W. W. Hurt, *Instr. Math. and Bookkeeping.*
W. N. Cunningham, *Instr., Ironwork.*
R. T. Bray, M. E., *Instr. Woodwork.*
T. L. Watson, *Instr. Mineralogy.*
J. Gardner, *Treas.*
A. W. Drinkhard, *Lib.*

Hampton Normal and Agricultural Institute, *Hampton.*

COURSE OF STUDY.

The course of study requires three years for completion and leads to no degree.

BOARD OF INSTRUCTION.

S. C. Armstrong, LL. D., *Prin.; Study of Man and Agr. Topics.*
Rev. H. B. Frissell, *Pastor and V. Prin.; Civil Government, Bible Lessons.*
F. N. Gilman, *Treas.*
F. C. Briggs, *Business Agent.*
Martha M. Waldron, M. D., *Resident Physician.*
Leonora E. Herron, *Lib.*
Mabel W. Dillingham, *Asst. Lib.*
Elizabeth Clark, *Lady Prin.; Math.*
Elizabeth Hyde, *in Charge of Academic Dept.*
Josephine E. Richards, *in Charge of Indian Dept.*
Susan A. H. Showers, *in Charge of Night School.*
Helen W. Ludlow, *English Literature.*
Dora Freeman, *Reading.*
Myrtilla J. Sherman, *Grammar and Composition.*
Jean E. Davis, *Math. and Natural Philosophy.*
Jean S. Worcester, *History and Geography.*
Alice M. Bacon, *Civil Government and Polit. Economy.*
Catherine Condell, *Writing and Arithmetic.*
Jessie F. Andrus, *Grammar and Physiol*
Mary M. Rose, *Natural History and Physiol.*
Mary R. Hamlin, *Geography.*
Cora L. Moore, *Writing.*
Emma Johnston, *Arithmetic.*
Mary W. Nettleton, *Methods.*
Ida M. Wilde, *Drawing.*
Annie B. Scoville, *Bible and History.*
Mercie A. Allen, *Arithmetic.*
F. G. Rathbun, *Music.*
Cora F. Butler, *Singing.*
Flora F. Lowe, *Arithmetic and Grammar.*
Vincentine T. Booth, *Reading, Languages, and Arithmetic.*
Alice I. Boardman, *Reading and Arithmetic.*
Hattie A. Nettleton, *Reading and Arithmetic.*
Marian Metcalf, *Bible and Reading.*

WASHINGTON.

Washington Agricultural College and School of Science, *Pullman.*

COURSES OF STUDY.

The courses of study are ten: The course in agriculture, the course in mechanic arts, the course in pharmacy, the course in chemistry, the course in domestic economy, the course in mining engineering, the course in civil engineering, the course in mechanical engineering, the course in electrical engineering, and the course in assaying.

BOARD OF INSTRUCTION.

John W. Heston, M. A., *Pres.*
E. R. Lake, M. Sc., *Hort. and Bot.*
J. P. Hendricks, B. S., M. A., *Agr.*
G. H. Watt, B. S., Ph. C., *Chem.*
C. E. Munn, V. S., *Vet.*
Nancy L. Van Doren, *Preceptress; English.*
C. V. Piper, B. S., *Ent.*
Ernest L. Newell, *Civil Engin.*
James Ferguson, *Sten.*

WEST VIRGINIA.

West Virginia University, *Morgantown.*

COURSES OF STUDY.

The courses of study are five, each requiring four years for completion: Classical course, leading to the degree of B. A.; scientific course, leading to the degree of B. S.; course in mechanical engineering, leading to the degree of B. S. M. E.; course in civil engineering, leading to the degree B. S. C. E.; and course in agriculture, leading to the degree of B. Agr. There is also a department of law, in which the degree of LL. B. is given. Postgraduate work and preparatory work are also provided.

BOARD OF INSTRUCTION.

E. M. Turner, LL. D., *Pres.*; *Polit. Economy.*
P. B. Reynolds, D. D., *V. Pres.*; *Metaphysics.*
R. C. Berkeley, M. A., LL. D., *Ancient Languages and Literature.*
J. I. Harvey, M. A., Ph. D., *Modern Languages and Literature.*
I. C. White, M. A., Ph. D. (*Emeritus*), *Geol.*
A. W. Lorentz, M. A., *Prin. Preparatory Dept.*
St. G. T. Brooke, LL. D., *Commercial and Statute Law.*
W. P. Willey, M. A., *Equity Jurisprudence and History.*
A. R. Whitehill, Ph. D., *Chem. and Physics.*
J. W. Hartigan, M. A., M. D., D. Sc., *Biol.*
F. D. Ramsey, Lieut. 9th Infantry, U. S. A., *Military Science and Tactics.*
H. P. Davenport, jr., *Civil and Mining Engin.*
T. C. Atkeson, Ph. B., *Agr.*
F. L. Emory, B. S., *Manual Training and Mech. Engin.*
J. L. Johnston, C. E., *Math. and Drawing.*
H. N. Ogden, M. A., *English.*
J. S. Stewart, M. S., *Math.*
S. B. Brown, M. A., *Geol.*
A. J. Hare, B. A., *Asst. in Preparatory Greek and Latin.*
Miss Clara Hough, *Lib.*

The West Virginia Colored Institute, *Farm.*

COURSES OF STUDY.

The courses of study are two: A course in agriculture requiring three years for completion, and a normal course.

BOARD OF INSTRUCTION.

J. Edwin Campbell, PH. B., *Prin.; Math.*
B. Prillerman, B. S., *English Language.*
Mrs. J. Edwin Campbell, *Instr. Music, Painting, and Drawing.*
J. M. Canty, *Mech.*

WISCONSIN.

College of Agriculture of the University of Wisconsin, *Madison.*

COURSES OF STUDY.

The long course requires four years, leading to the degree of B. AGR. The short course in agriculture lasts twelve weeks. The dairy course lasts twelve weeks, with two seasons actual practice in factory, on satisfactory completion of which a dairy certificate is granted.

BOARD OF INSTRUCTION.

Charles K. Adams, LL.D., *Pres.*
W. A. Henry, B. AGR., *Dean; Agr.*
S. M. Babcock, PH.D., *Agr. Chem.*
F. H. King, *Agr. Physics.*
E. S. Goff, *Hort. and Economic Ent.*
W. H. Morrison, *Supt. Farmers' Institute.*
F. W. Woll, M. S., *Chem.*
J. A. Craig, B. S. A., *Animal Husbandry.*
C. I. King, *Instr. Practical Mech.*
A. W. Richter, M. E., *Instr. Dairy Engin.*
C. A. Woodford, V. S., *Vet. Science.*
J. W. Decker, B. AGR., *Instr. Cheese-making.*
J. H. Noyes, *Instr. Butter-making.*
U. S. Baer, *1st Asst. in Cheese-making.*
D. Simmons, *2d Asst. in Cheese-making.*
E. W. Curtis, *1st Asst. in Creamery.*
F. Carpenter, *2d Asst. in Creamery.*
E. S. Brubaker, *3d Asst. in Creamery.*
A. Schoenman, *Instr. Milk Testing.*
De Witt Goodrich, *Instr. Farm Dairying.*
Leslie H. Adams, *Farm Supt.*

WYOMING.

College of Agriculture of the University of Wyoming, *Laramie.*

COURSE OF STUDY.

The course of study in the department of agriculture requires four years for completion, and leads to the degree of B. AGR.

BOARD OF INSTRUCTION.

A. A. Johnson, M. A., D. D., *Pres.; Polit. Science.*
J. D. Conley, PH.D., *Physics and Geol.*
Aven Nelson, M. S., M. A., *Biol.*
W. I. Smith, M. A., *Rhetoric and English Literature.*
B. C. Buffum, B. S., *Bot. and Hort.*
L. C. Colburn, B.S., *Mech. Engin. and Math.*
E. C. Bullock, 1st Lieut. 7th Cavalry, U. S. A., *Military Science and Tactics, and Math.*
E. E. Slosson, M. S., *Chem.*
Miss Cora M. McDonald, *Instr. History.*
F. J. Niswander, B.S., *Ent., Zoöl., and Agr.*

Table showing specialists in sciences relating to agriculture con-

State.	Location.	Agriculture.	Biology.	Botany.	Chemistry.
Alabama	Auburn	W. F. Feagin	W. E. Richards		N. T. Lupton R. F. Hare
Arizona	Tucson	F. A. Gulley		J. W. Toumey	C. B. Collingood.
Arkansas	Fayetteville		J. F. McNeill S. E. Meek		A. E. Menke W. B. Bentley
California	Berkeley	E. W. Hilgard	J. LeConte	E. L. Greene	E. W. Hilgard
		E. J. Wickson	W. E. Ritter	M. A. Howe	R. H. Loughridge
		M. E. Jaffa		W. L. Jepson	W. B. Rising E. O'Neill W. J. Sharwood. G. E. Colby. V. K. Chesnut. R. S. Norris. W. C. Blasdale.
Colorado	Fort Collins	Walter J. Quick. F. L. Watrous	C. P. Gillette. C. F. Baker	C. S. Crandall	D. O'Brine
Connecticut	New Haven	W. H. Brewer	A. E. Verrill. W. A. Setchel	D. C. Eaton	S. W. Johnson
			W. R. Coe		W. G. Mixter H. L. Wells
					W. J. Comstock. A. B. Adams A. J. Wakeman. G. F. Campbell. P. T. Walden. C. M. Williams. L. B. Abendd. C. J. Bartlett.
	Mansfield	C. S. Phelps			A. B. Peebles C. D. Woods.
Delaware	Newark	W. H. Bishop		F. D. Chester	T. R. Wolf
Florida	Lake City	J. P. DePass			J. J. Earle A. A. Persons.
	Tallahassee	A. Cuppage			F. C. Johnson.
Georgia	Athens	J. B. Hunnicutt.	J. P. Campbell		H. C. White
					C. H. Herty
Idaho	Moscow	R. Milliken			C. W. McCurdy.
Illinois	Champaign	G. E. Morrow	S. A. Forbes	T. J. Burrill	A. W. Palmer S. W. Parr.
Indiana	La Fayette	W. C. Latta C. S. Plumb	S. Coulter S. G. Wright	J. C. Arthur	H. A. Huston W. E. Stone. W. Jones. H. N. McCoy. W. H. Test.
Iowa	Ames	J. Wilson D. A. Kent C. F. Curtiss	D. S. Fairchild H. Osborn S. W. Beyer	L. H. Pammel	A. A. Bennett G. E. Patrick J. Chamberlain. L. Thurlimann.
Kansas	Manhattan	C. C. Georgeson.		A. S. Hitchcock.	G. H. Failyer J. T. Willard C. M. Breese.
Kentucky	Lexington	C. W. Mathews	H. Garman	C. W. Mathews. J. S. Terrill	R. Peter J. H. Kastle
Louisiana	Baton Rouge.	W. C. Stubbs D. N. Barrow.	A. T. Prescott.		B. B. Ross
	Camp Parapet	H. Jamieson E. P. Baptiste		S. M. Angell	V. L. Roy

nected with the Agricultural Colleges of the United States.

Entomology.	Geology.	Horticulture.	Physics.	Physiology and Veterinary Science.	Miscellaneous.
.....	.....	.....	W. L. Broun.		
.....	.....	.....	C. B. Glenn.		
J. W. Toumey .	.....	L. E. Benton ...	.....	.....	E. M. Boggs (*Irrig. Engin.*)
.....	J. F. McNeill..	.....	A. E. Menke.		
.....	.....	.....	W. B. Bentley.		
E. J. Wickson.	R. H. Loughridge.	E. J. Wickson ..	F. Slate.		
C. W. Woodworth.	J. LeConte	.....	N. Whiting.		
.....	C. Palache.....	.....	E. R. Drew.		
.....	A. C. Lawson..	.....	L. T. Thorpe.		
.....	.....	.....	A. O'Neill.		
C. P. Gillette...	D. O'Brine	C. S. Crandall..	L.G.Carpenter	.....	L. G. Carpenter. (*Irrig. Engin.*)
C. F. Baker....	.....	.....	J. D. Stannard.	.....	J. D. Stannard. (*Irrig. Engin.*)
.....	G. J. Brush....	.....	C. S. Hastings.	L. Frothingham.	
.....	A. E. Verrill...	.....	F. E. Beach...	S. F. Smith.	
.....	S. L. Penfield...	.....	A. C. Alexander.	R. H. Chittenden.	
.....	L. V. Pirsson...	.....	.....	C. M. Williams	
.....	.....	.....	.....	L. B. Abendd.	
.....	.....	.....	.....	C. J. Bartlett.	
.....	.....	.....	.....	.....	H. W. Conn (*Bact.*).
M. H. Beckwith	T. R. Wolf..... F. D. Chester.	M. H. Beckwith	G. A. Harter..	H. P. Eves.	
.....	.....	J. N. Whitner..	J. J. Earle.....	A. W. Bitting.	J. N. Whitner (*Pomology*).
.....	.....	.....	L. H. Charbonnier.		
.....	.....	.....	Jesse Coates.		
.....	.....	R. Milliken. C. W. McCurdy			
S. A. Forbes ...	C. W. Rolfe	T. J. Burrill....	D. W. Shea....	D. McIntosh.	
J. Troop	.....	J. Troop	F. A. Waterman.	W. L. Williams	
H. Osborn.....	S. W. Beyer....	.....	W. S. Franklin	M. Stalker	H. C. Wallace (*Dairying*).
.....	.....	.....	.....	W. B. Niles.	
.....	.....	.....	.....	D. S. Fairchild.	
E. A. Popenoe..	G. H. Failyer ..	E. A. Popenoe..	E. R. Nichols..	N. S. Mayo.	
.....	.....	S. C. Mason.			
H. Garman.....	.....	C. W. Mathews.	J. P. Nelson...	J. W. Pryor.	
J. S. Terrill....	.....	J. Murray	M. L. Pence.		
H. A. Morgan..	B. B. Ross.....	F. H. Burnette.	W. D. Taylor .	W. H. Dalrymple.	
.....	.....	.....	V. L. Roy	S. M. Angell.	

Table showing specialists in sciences relating to agriculture connected

State.	Location.	Agriculture.	Biology.	Botany.	Chemistry.
Maine	Orono	W. Balentine G. M. Gowell	F. L. Harvey F. P. Briggs		A. B. Aubert D. W. Colby.
Maryland	College Park	W. L. Taliaferro	M. P. Scott.	J. S. Robinson	H. B. McDonnell
Massachusetts	Amherst	L. Stockbridge W. P. Brooks	C. H. Fernald	S. T. Maynard	C. A. Goessmann C. Wellington.
Michigan	Agricultural College.	P. M. Harwood E. A. Burnett	A. J. Cook	W. J. Beal G. H. Hicks	R. C. Kedzie F. S. Kedzie
Minnesota	Minneapolis			Otto Lugger	H. Snyder
	St. Anthony Park.	C. D. Smith		S. B. Green	
Mississippi	Agricultural College.	J. H. Connell	G. C. Creelman		W. L. Hutchinson. W. R. Perkins
	Rodney	J. D. Burrus	J. A. Lester	J. A. Lester	J. Anderson
Missouri	Columbia	E. D. Porter C. A. Keffer.	G. D. Purinton		P. Schweitzer
Nebraska	Lincoln	C. L. Ingersoll	E. H. Barbour.	C. E. Bessey A. F. Woods	H. H. Nicholson. Rachel Lloyd H. E. Fulmer. T. L. Lyon.
Nevada	Reno	R. H. McDowell.		F. H. Hillman	J. W. Phillips F. Stadtmüller
New Hampshire.	Hanover	G. H. Whitcher. A. H. Wood	H. G. Jessup C. M. Weed		F. W. Morse C. L. Parsons.
New Jersey	New Brunswick.	E. B. Voorhees	J. Nelson	B. D. Halsted	A. H. Chester C. L. Speyers G. A. Mitchell.
New Mexico	Las Cruces			E. O. Wooton	A. Goss
New York	Ithaca	I. P. Roberts		A. N. Prentiss G. F. Atkinson W. W. Rowlee.	G. C. Caldwell L. M. Dennis
North Carolina.	Raleigh	J. R. Chamberlain F. E. Emery		W. F. Massey	W. A. Withers H. W. Miller.
North Dakota	Fargo	W. M. Hays L. B. Hibbard.	H. L. Bolley	H. L. Bolley	E. F. Ladd
Ohio	Columbus	N. S. Townshend T. F. Hunt	D. S. Kellicott.	W. A. Kellerman W. C. Werner	S. A. Norton H. A. Weber C. A. Dye L. M. Bloomfield W. McPherson.
Oklahoma	Stillwater	A. C. Magruder	J. C. Neal		G. L. Holter
Oregon	Corvallis	H. T. French C. D. Thompson	F. L. Washburn	M. Craig	G. W. Shaw D. Lotz.
Pennsylvania	State College.	W. A. Buckhout. H. J. Waters W. H. Caldwell	H. T. Fernald.	G. C. Butz	W. Frear G. G. Pond F. E. Tuttle. W. H. Walker. W. J. Karslake.
Rhode Island	Providence		J. W. P. Jenks. A. S. Packard. R. W. Tower	W. W. Bailey	J. H. Appleton E. E. Calder W. M. Saunders. C. E. Wilson.
	Kingston	C. O. Flagg H. F. Adams.		L. F. Kinney	J. H. Washburn.
South Carolina.	Fort Hill. Orangeburg		J. S. Heyward. J. C. Hartzell, jr.		
South Dakota	Brookings	A. W. Williams.		T. A. Williams	J. H. Shepard C. G. Hopkins.

with the Agricultural Colleges of the United States—Continued.

Entomology.	Geology.	Horticulture.	Physics.	Physiology and Veterinary Science.	Miscellaneous.
.....	.....	W. M. Munson.	J. S. Stevens.		
.....	.....	J. S. Robinson .	W. H. Zimmerman. H. M. Strickler.	M. P. Scott.	
.....	.....	S. T. Maynard..	C. D. Warner .	J. B. Paige.	
A. J. Cook	.....	L. R. Taft.....	P. B. Woodworth.	E. A. A. Grange	
.....	.....	A. G. Gulley ... T. Gunson.	.....	E. A. Burnett.	
Otto Lugger...	.....	S. B. Green.			
.....	.....	.....	W. W. Pendergast. W. Robertson.	C. Graham	T. L. Haecker (*Dairying*).
.....	G. C. Creelman.	A. B. McKay...	.....	Tait Butler.	
.....	.....	C. T. Ames.			
.....	.....	.....	J. Anderson..	J. A. Lester.	
.....	G. C. Broadhead	C. A. Keffer....	M. L. Lipscomb	J. W. Connoway.	
L. Bruner	E. H. Barbour..	F. W. Taylor ..	D. B. Brace. H. N. Allen.		
F. H. Hillman..	W. M. Miller ..	R. H. McDowell	W. M. Miller.	W. M. Miller.	
.....	R. D. Jackson..	.....	J. W. Phillips. F. Stadtmüller		
C. M. Weed	C. H. Hitchcock	.....	G. L. Teeple.		
J. B. Smith.....	F. R. Van Horn	B. D. Halsted ..	F. C. VanDyck. Eugene Betts.		
C. H. T. Townsend.	.....	A. E. Blount ...	.....	C. H. T. Townsend.	
J. H. Comstock	.....	A. N. Prentiss .	.....	J. Law.....	H. H. Wing (*Dairying*).
.....	.....	L. H. Bailey.			
.....	.....	W. F. Massey.			
.....	.....	C. B. Waldron.	.....	T. D. Hinebauch.	
D. S. Kellicott .	E. Orton	W. R. Lazenby.	B. F. Thomas	H. J. Detmers.	
.....	N. W. Lord	.....	J. E. Boyd ...	P. Fischer.	
.....	H. A. Surface ..	.....	.....	A. M. Bleile.	
.....	.....	.....	.....	C. B. Morrey.	
.....	.....	A. C. Magruder.	G. L. Holter.		
F. L. Washburn	.....	G. Coote.			
.....	F. E. Tuttle....	W. A. Buckhout	I. T. Osmond..	.....	H. P. Armsby (*Cattle feeding*).
.....	.....	G. C. Butz.			
.....	A. S. Packard..	.....	E. W. Blake...	C. V. Chapin.	
.....	.....	.....	W. D. Mount .	H. C. Bumpus.	
.....	.....	.....	.....	G. M. Gray.	
.....	H. J. Wheeler..	L. F. Kinney...	.....	.....	S. Cushman (*Apiarist*).
.....	J. C. Hartzell, jr.				
T. A. Williams.	.....	J. C. Whitten ..	L. McLouth ..	.....	A. H. Wheaton (*Dairying*).

Table showing specialists in sciences relating to agriculture connected

State.	Location.	Agriculture.	Biology.	Botany.	Chemistry.
Tennessee	Knoxville	C. F. Vanderford	S. W. McCallie	F. Lamson-Scribner. R. L. Watts	C. W. Dabney, jr C. E. Wait
Texas	College Station.	G. W. Curtis J. M. Carson	.....	Helge Ness	H. H. Harrington P. S. Pilson
Utah	Logan	J. W. Sanborn A. A. Mills.	F. W. Brewer	E. S. Richman	.....
Vermont	Burlington	.....	G. H. Perkins L. R. Jones	....	N. F. Merrill J. L. Hills.
Virginia	Blacksburg	D. O. Nourse	E. A. Smyth, jr	W. B. Alwood	J. M. McBryde R. C. Price R. J. Davidson.
	Hampton	S. C. Armstrong.	M. M. Rose	.....	.....
Washington	Pullman	J. P. Hendricks	.....	E. R. Lake	G. H. Watt
West Virginia.	Morgantown.	T. C. Atkeson	.....	.....	A. R. Whitehill
Wisconsin	Madison	W. A. Henry	.....	.....	S. M. Babcock F. W. Woll.
Wyoming	Laramie	F. J. Niswander.	A. Nelson F. J. Niswander	B. C. Buffum	E. E. Slosson

with the Agricultural Colleges of the United States—Continued.

Entomology.	Geology.	Horticulture.	Physics.	Physiology and Veterinary Science.	Miscellaneous.
.....	S. W. McCallie.	F. Lamson-Scribner.	C. A. Perkins.		
.....	.....	R. L. Watts.			
.....	H. H. Harrington.	Helge Ness	J. C. Nagle....	M. Francis.	
.....	P. S. Pilson	.....	D. W. Spence.		
.....	W. P. Cutter. ..	E. S. Richman..	W. P. Cutter..	S. S. Twombly.	
.....	H. Loomis	.....	A. L. Daniels .	F. A. Rich.	
W. B. Alwood..	R. C. Price	W. B. Alwood..	W. E. Anderson.	E. P. Niles.	
.....	T. L. Watson.				
.....	.....	.....	.....	M. M. Rose.	
C. V. Piper.....	.....	E. A. Lake	.....	C. E. Munn.	
.....	I. C. White	.....	A. R. Whitehill		
	S. B. Brown.				
E. S. Goff	.....	E. S. Goff	F. H. King....	C. A. Woodford	J. A. Craig (*Animal Husbandry*).
					J. W. Decker, I. H. Noyes, A. Schœnman, D. Goodrich (*Dairying*).
F. J. Niswander	J. D. Conley ...	B. C. Buffum...	J. D. Conley.		

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FEDERAL LEGISLATION AFFECTING AGRICULTURAL COLLEGES AND EXPERIMENT STATIONS.

ACT OF 1862 DONATING LANDS FOR AGRICULTURAL COLLEGES.

AN ACT donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there be granted to the several States, for the purposes hereinafter mentioned, an amount of public land, to be apportioned to each State a quantity equal to thirty thousand acres for each Senator and Representative in Congress to which the States are respectively entitled by the apportionment under the census of eighteen hundred and sixty: *Provided,* That no mineral lands shall be selected or purchased under the provisions of this act.

SEC. 2. That the land aforesaid, after being surveyed, shall be apportioned to the several States in sections or subdivisions of sections, not less than one quarter of a section; and whenever there are public lands in a State subject to sale at private entry at one dollar and twenty-five cents per acre, the quantity to which said State shall be entitled shall be selected from such lands within the limits of such State, and the Secretary of the Interior is hereby directed to issue to each of the States in which there is not the quantity of public lands subject to sale at private entry at one dollar and twenty-five cents per acre, to which said State may be entitled under the provisions of this act, land scrip to the amount in acres for the deficiency of its distributive share: said scrip to be sold by said States and the proceeds thereof applied to the uses and purposes prescribed in this act, and for no other use or purpose whatsoever: *Provided,* That in no case shall any State to which land scrip may thus be issued be allowed to locate the same within the limits of any other State, or of any Territory of the United States, but their assignees may thus locate said land scrip upon any of the unappropriated lands of the United States subject to sale at private entry at one dollar and twenty-five cents, or less, per acre: *And provided, further,* That not more than one million acres shall be located by such assignees in any one of the States: *And provided, further,* That no such location shall be made before one year from the passage of this act.

SEC. 3. That all the expenses of management, superintendence, and taxes from date of selection of said lands, previous to their sales, and all expenses incurred in the management and disbursement of the moneys which may be received therefrom, shall be paid by the States to which they belong, out of the Treasury of said States, so that the entire proceeds of the sale of said lands shall be applied without any diminution whatever to the purposes hereinafter mentioned.

SEC. 4. That all moneys derived from the sale of the lands aforesaid by the States to which the lands are apportioned, and from the sales of land scrip hereinbefore provided for, shall be invested in stocks of the United States, or of the States, or some other safe stocks, yielding not less than five per centum upon the par value of said stocks; and that the moneys so invested shall constitute a perpetual fund, the capital of which shall remain forever undiminished (except so far as may be

provided in section fifth of this act), and the interest of which shall be inviolably appropriated, by each State which may take and claim the benefit of this act, to the endowment, support, and maintenance of at least one college where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life.

SEC. 5. That the grant of land and land scrip hereby authorized shall be made on the following conditions, to which, as well as the provisions hereinbefore contained, the previous assent of the several States shall be signified by legislative acts:

First. If any portion of the fund invested, as provided by the foregoing section, or any portion of the interest thereon, shall, by any action or contingency, be diminished or lost, it shall be replaced by the State to which it belongs, so that the capital of the fund shall remain forever undiminished; and the annual interest shall be regularly applied without diminution to the purposes mentioned in the fourth section of this act, except that a sum, not exceeding ten per centum upon the amount received by any State under the provisions of this act, may be expended for the purchase of lands for sites or experimental farms, whenever authorized by the respective legislatures of said States.

Second. No portion of said fund, nor the interest thereon, shall be applied, directly or indirectly, under any pretense whatever, to the purchase, erection, preservation, or repair of any building or buildings.

Third. Any State which may take and claim the benefit of the provisions of this act shall provide, within five years, at least not less than one college, as described in fourth section of this act, or the grant to such State shall cease; and said State shall be bound to pay the United States the amount received of any lands previously sold, and that the title to purchasers under the State shall be valid.

Fourth. An annual report shall be made regarding the progress of each college, recording any improvements and experiments made, with their cost and results, and such other matters, including State industrial and economical statistics, as may be supposed useful; one copy of which shall be transmitted by mail free, by each, to all the other colleges which may be endowed under the provisions of this act, and also one copy to the Secretary of the Interior.

Fifth. When lands shall be selected from those which have been raised to double the minimum price, in consequence of railroad grants, they shall be computed to the States at the maximum price, and the number of acres proportionally diminished.

Sixth. No State while in a condition of rebellion or insurrection against the Government of the United States shall be entitled to the benefit of this act.

Seventh. No State shall be entitled to the benefits of this act unless it shall express its acceptance thereof by its legislature within two years from the date of its approval by the President.

SEC. 6. That land scrip issued under the provisions of this act shall not be subject to location until after the first day of January, one thousand eight hundred and sixty-three.

SEC. 7. That the land officers shall receive the same fees for locating land scrip issued under the provisions of this act as is now allowed for the location of military bounty land warrants under existing laws: *Provided,* Their maximum compensation shall not be thereby increased.

SEC. 8. That the governors of the several States to which scrip shall be issued under this act shall be required to report annually to Congress all sales made of such scrip until the whole shall be disposed of, the amount received for the same, and what appropriation has been made of the proceeds

Approved, July 2, 1862.

ACT OF 1887 ESTABLISHING AGRICULTURAL EXPERIMENT STATIONS.

AN ACT to establish agricultural experiment stations in connection with the colleges established in the several States under the provisions of an act approved July second, eighteen hundred and sixty-two, and of the acts supplementary thereto.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That in order to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science, there shall be established, under direction of the college or colleges or agricultural department of colleges in each State or Territory established, or which may hereafter be established, in accordance with the provisions of an act approved July second, eighteen hundred and sixty-two, entitled "An act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts," or any of the supplements to said act, a department to be known and designated as an "agricultural experiment station:" *Provided,* That in any State or Territory in which two such colleges have been or may be so established the appropriation hereinafter made to such State or Territory shall be equally divided between such colleges, unless the legislature of such State or Territory shall otherwise direct.

SEC. 2. That it shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective States or Territories.

SEC. 3. That in order to secure, as far as practicable, uniformity of methods and results in the work of said stations, it shall be the duty of the United States Commissioner of Agriculture to furnish forms, as far as practicable, for the tabulation of results of investigation or experiments; to indicate, from time to time, such lines of inquiry as to him shall seem most important; and, in general, to furnish such advice and assistance as will best promote the purposes of this act. It shall be the duty of each of said stations annually, on or before the first day of February, to make to the governor of the State or Territory in which it is located a full and detailed report of its operations, including a statement of receipts and expenditures, a copy of which report shall be sent to each of said stations, to the said Commissioner of Agriculture, and to the Secretary of the Treasury of the United States.

SEC. 4. That bulletins or reports of progress shall be published at said stations at least once in three months, one copy of which shall be sent to each newspaper in the States or Territories in which they are respectively located, and to such individuals actually engaged in farming as may request the same, and as far as the means of the station will permit. Such bulletins or reports and the annual reports of said stations shall be transmitted in the mails of the United States free of charge for postage, under such regulations as the Postmaster-General may from time to time prescribe.

SEC. 5. That for the purpose of paying the necessary expenses of conducting investigations and experiments and printing and distributing the results as hereinbefore

described, the sum of fifteen thousand dollars per annum is hereby appropriated to each State, to be specially provided for by Congress in the appropriations from year to year, and to each Territory entitled under the provisions of section eight of this act, out of any money in the Treasury proceeding from the sales of public lands, to be paid in equal quarterly payments, on the first day of January, April, July, and October in each year, to the treasurer or other officer duly appointed by the governing boards of said colleges to receive the same, the first payment to be made on the first day of October, eighteen hundred and eighty-seven: *Provided, however,* That out of the first annual appropriation so received by any station an amount not exceeding one fifth may be expended in the erection, enlargement, or repair of a building or buildings necessary for carrying on the work of such station; and thereafter an amount not exceeding five per centum of such annual appropriation may be so expended.

SEC. 6. That whenever it shall appear to the Secretary of the Treasury from the annual statement of recipts and expenditures of any of said stations that a portion of the preceding annual appropriation remain unexpended, such amount shall be deducted from the next succeeding annual appropriation to such station, in order that the amount of money appropriated to any station shall not exceed the amount actually and necessarily required for its maintenance and support.

SEC. 7. That nothing in this act shall be construed to impair or modify the legal relation existing between any of the said colleges and the government of the State, or Territories in which they are respectively located.

SEC. 8. That in States having colleges entitled under this section to the benefits of this act and having also agricultural experiment stations established by law separate from said colleges, such States shall be authorized to apply such benefits to experiments at stations so established by such States; and in case any State shall have established under the provisions of said act of July second, aforesaid, an agricultural department or experimental station, in connection with any university, college, or institution not distinctively an agricultural college or school, and such State shall have established or shall hereafter establish a separate agricultural college or school, which shall have connected therewith an experimental farm or station, the legislature of such State may apply in whole or in part the appropriation by this act made to such separate agricultural college or school, and no legislature shall by contract express or implied disable itself from so doing.

SEC. 9. That the grants of moneys authorized by this act are made subject to the legislative assent of the several States and Territories to the purposes of said grants: *Provided,* That payment of such installments of the appropriation herein made as shall become due to any State before the adjournment of the regular session of its legislature meeting next after the passage of this act shall be made upon the assent of the governor thereof duly certified to the Secretary of the Treasury.

SEC. 10. Nothing in this act shall be held or construed as binding the United States to continue any payment from the Treasury to any or all the States or institutions mentioned in this act, but Congress may at any time amend, suspend, or repeal any or all the provisions of this act.

Approved, March 2, 1887.

ACT OF 1890 FOR THE FURTHER ENDOWMENT OF AGRICULTURAL COLLEGES.

AN ACT to apply a portion of the proceeds of the public lands to the more complete endowment and support of the colleges for the benefit of agriculture and the mechanic arts established under the provisions of an act of Congress approved July second, eighteen hundred and sixty-two.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there shall be, and hereby is, annually appropriated, out of any money in the Treasury not otherwise appropriated, arising from the sales of public lands, to be paid as hereinafter provided to each State and Territory for the more complete endowment and maintenance of colleges for the benefit of agriculture

and the mechanic arts now established, or which may be hereafter established, in accordance with an act of Congress approved July second, eighteen hundred and sixty-two, the sum of fifteen thousand dollars for the year ending June thirtieth, eighteen hundred and ninety, and an annual increase of the amount of such appropriation thereafter for ten years by an additional sum of one thousand dollars over the preceding year, and the annual amount to be paid thereafter to each State and Territory shall be twenty-five thousand dollars to be applied only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematical, physical, natural and economic science, with special reference to their applications in the industries of life, and to the facilities for such instruction: *Provided,* That no money shall be paid out under this act to any State or Territory for the support and maintenance of a college where a distinction of race or color is made in the admission of students, but the establishment and maintenance of such colleges separately for white and colored students shall be held to be a compliance with the provisions of this act if the funds received in such State or Territory be equitably divided as hereinafter set forth: *Provided,* That in any State in which there has been one college established in pursuance of the act of July second, eighteen hundred and sixty-two, and also in which an educational institution of like character has been established, or may be hereafter established, and is now aided by such State from its own revenue, for the education of colored students in agriculture and the mechanic arts, however named or styled, or whether or not it has received money heretofore under the act to which this act is an amendment, the Legislature of such State may propose and report to the Secretary of the Interior a just and equitable division of the fund to be received under this act between one college for white students and one institution for colored students established as aforesaid, which shall be divided into two parts and paid accordingly, and thereupon such institution for colored students shall be entitled to the benefits of this act and subject to its provisions, as much as it would have been if it had been included under the act of eighteen hundred and sixty-two, and the fulfillment of the foregoing provisions shall be taken as a compliance with the provision in reference to separate colleges for white and colored students.

SEC. 2. That the sums hereby appropriated to the States and Territories for the further endowment and support of colleges shall be annually paid on or before the thirty-first day of July of each year, by the Secretary of the Treasury, upon the warrant of the Secretary of the Interior, out of the Treasury of the United States, to the State or Territorial treasurer, or to such officer as shall be designated by the laws of such State or Territory to receive the same, who shall, upon the order of the trustees of the college, or the institution for colored students, immediately pay over said sums to the treasurers of the respective colleges or other institutions entitled to receive the same, and such treasurers shall be required to report to the Secretary of Agriculture and to the Secretary of the Interior, on or before the first day of September of each year, a detailed statement of the amount so received and of its disbursement. The grants of moneys authorized by this act are made subject to the legislative assent of the several States and Territories to the purpose of said grants: *Provided,* That payments of such installments of the appropriation herein made as shall become due to any State before the adjournment of the regular session of legislature meeting next after the passage of this act shall be made upon the assent of the governor thereof, duly certified to the Secretary of the Treasury.

SEC. 3. That if any portion of the moneys received by the designated officer of the State or Territory for the further and more complete endowment, support, and maintenance of colleges, or of institutions for colored students, as provided in this act, shall, by any action or contingency, be diminished or lost, or be misapplied, it shall be replaced by the State or Territory to which it belongs, and until so replaced no subsequent appropriation shall be apportioned or paid to such State or Territory; and no portion of said moneys shall be applied, directly or indirectly, under any pretense whatever, to the purchase, erection, preservation, or repair of any building

or buildings. An annual report by the president of each of said colleges shall be made to the Secretary of Agriculture, as well as to the Secretary of the Interior, regarding the condition and progress of each college, including statistical information in relation to its receipts and expenditures, its library, the number of its students and professors, and also as to any improvements and experiments made under the direction of any experiment stations attached to said colleges, with their costs and results, and such other industrial and economical statistics as may be regarded as useful, one copy of which shall be transmitted by mail free to all other colleges further endowed under this act.

SEC. 4. That on or before the first day of July in each year, after the passage of this act, the Secretary of the Interior shall ascertain and certify to the Secretary of the Treasury as to each State and Territory whether it is entitled to receive its share of the annual appropriation for colleges, or of institutions for colored students, under this act, and the amount which thereupon each is entitled, respectively, to receive. If the Secretary of the Interior shall withhold a certificate from any State or Territory of its appropriation the facts and reasons therefor shall be reported to the President, and the amount involved shall be kept separate in the Treasury until the close of the next Congress, in order that the State or Territory may, if it should so desire, appeal to Congress from the determination of the Secretary of the Interior. If the next Congress shall not direct such sum to be paid it shall be covered into the Treasury. And the Secretary of the Interior is hereby charged with the proper administration of this law.

SEC. 5. That the Secretary of the Interior shall annually report to Congress the disbursements which have been made in all the States and Territories, and also whether the appropriation of any State or Territory has been withheld, and if so, the reasons therefor.

SEC. 6. Congress may at any time amend, suspend or repeal any or all of the provisions of this act.

Approved, August 30, 1890.

REGULATIONS OF THE POST-OFFICE DEPARTMENT FOR THE FREE TRANSMISSION IN THE MAILS OF THE BULLETINS AND REPORTS OF AGRICULTURAL EXPERIMENT STATIONS UNDER THE ACT OF CONGRESS OF MARCH 2, 1887.

(1) Any claimant of the privilege must apply for authority to exercise it to the Postmaster-General, stating the date of the establishment of such station, its proper name or designation, its official organization and the names of its officers, the name of the university, college, school, or institution to which it is attached, if any, the legislation of the State or Territory providing for its establishment, and any other granting it the benefits of the provision made by Congress as aforesaid (accompanied by a copy of the act or acts), and whether any other such station in the same State or Territory is considered, or claims to be, also entitled to the privilege; and also the place of its location and the name of the post-office where the bulletins and reports will be mailed. The application must be signed by the officer in charge of the station.

(2) If such application be allowed after examination by the Department, the postmaster of the proper office will be instructed to admit such bulletins and reports to the mails in compliance with these regulations, and the officer in charge of the station will be notified thereof.

(3) Paragraph 3, section 419, Postal Laws and Regulations 1887, is hereby amended so as to read as follows:

"Only such bulletins or reports as shall have been issued after the station became entitled to the benefits of the act can be transmitted free, and such bulletins or reports may be inclosed in envelopes or wrappers, sealed or unsealed. On the exterior of every envelope, wrapper, or package must be written or printed the name of the station and place of its location, the designation of the inclosed bulletin or report and the word 'Free' over the signature or facsimile thereof of the officer in charge of the station, to be affixed by himself, or by some one duly deputed by him for that purpose. There may also be written or printed upon the envelope or wrapper a request that the postmaster at the office of delivery will notify the mailing station of the change of address of the addressee, or other reason for inability to deliver the same, and upon a bulk package a request to the postmaster to open and distribute the 'franked' matter therein, in accordance with the address thereon.

"Bulletins published by the U. S. Department of Agriculture and analogous to those of the station, and entitled to be mailed free under the penalty envelope of that Department, may also be adopted and mailed by the several stations, with their own publications, under the same regulations, and any bulletins or reports mailable free by any agricultural experiment station under these regulations may be so mailed by any other station having free mailing authority.

"If such station's annual reports be printed by State authority, and consist in part of matter relating to the land grant college to which such station is attached, then said report may be mailed free entire by the director of the station; provided, in his judgment, the whole consists of useful information of an agricultural character."

The Post-Office Department has recently ruled that "in sending out bulletins from an agricultural experiment station it is permissible to inclose postal cards to enable correspondents of the station to acknowledge the receipt of its publications and to request their continuous transmission."

(4) The bulletins may be mailed to the stations, newspapers, or persons to whom they are by the foregoing act authorized to be sent, and the annual reports to any address within the United States.

EXTRACT FROM THE ACT OF CONGRESS MAKING APPROPRIATIONS FOR FISCAL YEAR ENDING JUNE 30, 1894.

The act of the Fifty-second Congress, making appropriations for the Department of Agriculture, for the fiscal year ending June 30, 1894, contains the following paragraph:

"*Agricultural experiment stations:* To carry into effect the provisions of an act approved March 2, 1887, entitled 'An act to establish agricultural experiment stations in connection with the colleges established in the several States under provisions of an act approved July 2, 1862, and of the acts supplementary thereto,' and to enforce the execution thereof, $745,000, $25,000 of which sum shall be payable upon the order of the Secretary of Agriculture to enable him to carry out the provisions of section 3 of said act of March 2, 1887; and the Secretary of Agriculture is hereby authorized to employ such assistants, clerks, and other persons as he may deem necessary, and to incur such other expenses in traveling, stationery, and office fixtures as he may find essential in carrying out the objects of the above acts, and the sums apportioned to the several States shall be paid quarterly in advance. And the Secretary of Agriculture is hereby authorized to furnish to such institutions or individuals as may care to buy it copies of the card index of agricultural literature prepared by the Office of Experiment Stations, and charge for the same a price covering the additional expense involved in the preparation of these copies, and he is hereby authorized to apply the moneys received toward the expense of the preparation of the index."

INDEX OF NAMES OF STATION AND COLLEGE WORKERS.

In the following index short biographical sketches of station and college workers are given, including (1) the degrees, (2) place and date of graduation, (3) post-graduate courses, and (4) scientific positions held since graduation. A note explanatory of abbreviations is given on page 8.

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Adams, Charles K., M. A., LL. D.; Univ. of Mich. '61; p. g., Univ. of Mich., Germany, and Paris; Instr. History and Latin, Univ. of Mich.; Asst. Prof. History and Latin, same; Prof. History, same; Dean School Polit. Science, same; Pres., Cornell Univ.; Pres., Univ. of Wis 27, 60

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Anderson, Rufus, M. M. E.; Cornell Univ. '73; Prof. Industrial Mech., Alfred Univ. (N. Y.); Teacher Natural Sciences, Fairfield Seminary and Utica Academy (N. Y.); Foreman Machine Shops, and Instr. Mech. Engin., Cornell Univ.; Supt. Mech. Engin. Shops, Univ. of Ill 38

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